



234
SERVICE
MANUAL

2225L



marantz

model 2225L

Stereophonic Receiver

TABLE OF CONTENTS

SECTION	PAGE
Introduction	1
Service Notes	1
Test Equipment Required for Servicing	2
AM Alignment Procedure	3
AM (LW, MW) IF Alignment	3
LW Frequency Range and Tracking Alignment	3
MW Frequency Range and Tracking Alignment	3
FM Alignment Procedure	3
Stereo Separation Alignment	4
Muting Threshold Adjustment	4
Power Amplifier Adjustment	4
Power Supply Adjustment	4
Parts List	22
Technical Specifications	31
Voltage Conversion	33

LIST OF ILLUSTRATIONS

FIGURE	PAGE
1. Dial Stringing	1
2. Front Panel Adjustments and Component Locations	5
3. Main Chassis Component Locations (Top View)	5
4. Rear Panel Adjustment and Component Locations	6
5. Main Chassis Component Locations (Bottom View)	6
6. FM AM Front End Assembly (P100) Schematic Diagram	7
7. FM AM Front End Assembly (P100) Component Locations	7
8. FM IF Amplifier, Detector, Muting Control and Meter Amplifier Unit Assembly (P200) Schematic Diagram	8
9. FM IF Amplifier, Detector, Muting Control and Meter Amplifier Unit Assembly (P200) Component Locations	8
10. FM MPX Stereo Decoding Amplifier Assembly (P300) Schematic Diagram	9
11. FM MPX Stereo Decoding Amplifier Assembly (P300) Component Locations	9
12. EQL. Amplifier Assembly (P400) Schematic Diagram	10
13. EQL. Amplifier Assembly (P400) Component Locations	10
14. Power Supply Assembly (P800) Schematic Diagram	10
15. Power Supply Assembly (P800) Component Locations	10
16. Main Amplifier Assembly (P700) Schematic Diagram	11
17. Main Amplifier Assembly (P700) Component Locations	11
18. Dial Lamp Assembly (PZ01) Schematic Diagram	12
19. Dial Lamp Assembly (PZ01) Component Locations	12
20. Filter Assembly (PH01) Schematic Diagram	12
21. Filter Assembly (PH01) Component Locations	12
22. Pre-Tone Amplifier Assembly (PE01) Schematic Diagram	13
23. Pre-Tone Amplifier Assembly (PE01) Component Locations	13
24. Main and Remote Switch Assembly (PT01) Schematic Diagram	14
25. Main and Remote Switch Assembly (PT01) Component Locations	14
26. Exploded Mechanical Diagram	16
27. Wiring Diagram	18
28. Schematic Diagram	20
29. Packing	32
30. Voltage Conversion Chart	33

INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2225L Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operations in the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can be usually be obtained through local suppliers.

1. SERVICE NOTES

As can be seen from the circuit diagram, the chassis of Model 2225L consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. FM Front End & AM (LW, MW) Tuner	mounted on P.W.B. P100
2. FM IF Amplifier, Detector, Muting Control	mounted on P.W.B. P200
3. MPX Stereo Decoding Amplifier	mounted on P.W.B. P300
4. Phono Amplifier	mounted on P.W.B. P400
5. Tone Amplifier	mounted on P.W.B. PE01
6. Tape Monitor, Mono, Low and High Filter Switch Unit	mounted on P.W.B. PH01
7. Loudness, Muting, Main and Remote Switch Unit	mounted on P.W.B. PT01
8. Power Amplifier	mounted on P.W.B. P700
9. Power Supply	mounted on P.W.B. P800
10. Dial Lamp Unit	mounted on P.W.B. PZ01

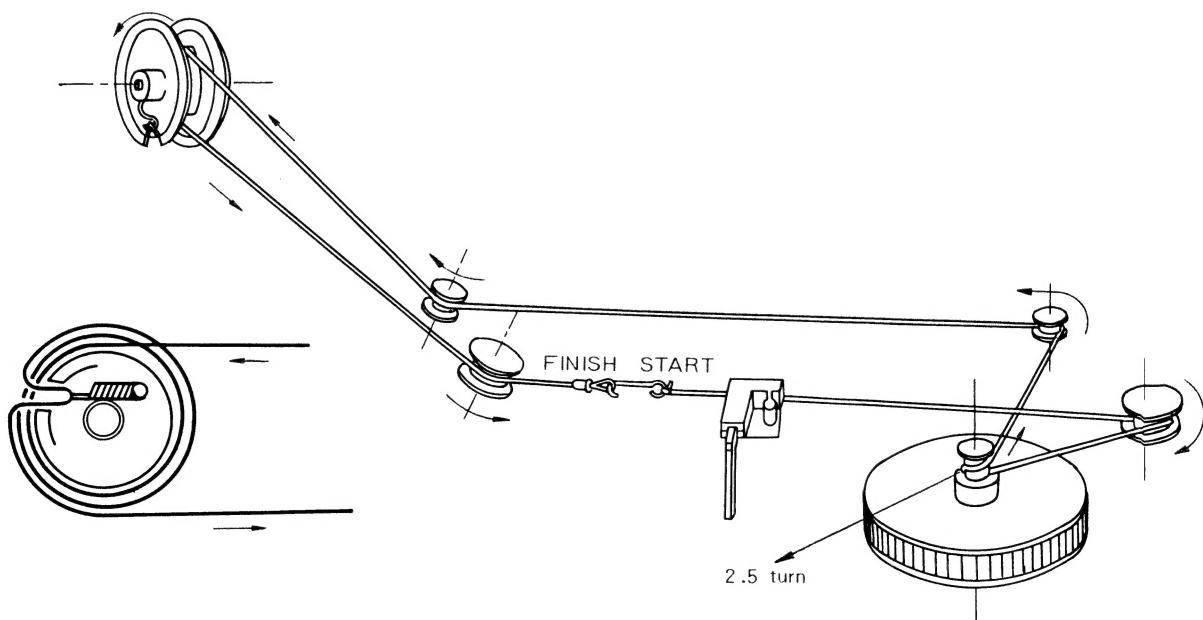


Figure 1. Dial Stringing

2. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 2225L Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator	Less than 0.3% distortion	Signal source for FM alignment
Stereo Modulator	Less than 0.3% distortion	Stereo separation alignment and trouble shooting
Audio Oscillator	Weston Model CVO-100P, less than 0.02% residual distortion is required.	Sinewave and squarewave signal source.
Frequency Counter		MPX Oscillator adjustment(VCO)
Oscilloscope	High sensitivity with DC horizontal and vertical amplifiers.	Waveform analysis and trouble shooting, and ASO alignment.
VTVM	With AC, DC, RF range	Voltage measurements.
Circuit Tester		Trouble shooting
AC Wattmeter	Simpson, Model 390	Monitors primary power to amplifier.
AC Ammeter	Commercial Grade(1-10A)	Monitors amplifier output under short circuit condition.
Line Voltmeter	Commercial Grade (0-150V AC)	Monitors potential of primary power to amplifier.
Variable Autotransformer (0-140V AC, 10 amps.)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohm across center pin and shell.	Shorts amplifier input to eliminate noise pickup.
Output Load (8 ohms, 0.5%, 100 W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output Load (4 ohms, 0.5%, 100 W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.

3. AM ALIGNMENT PROCEDURE

3.1 AM (LW, MW) IF Alignment

1. Connect a sweep generator to the J106 and an alignment scope to the resistor R120 (outside).
2. Rotate each core of IF transformers L112 and L113 for the maximum height and flat top symmetrical response.

3.2 LW Frequency Range and Tracking Alignment

1. Set LW signal generator to 145 kHz. Turn the tuning capacitor fully close (place the tuning pointer at the low end) and adjust the oscillator coil L110 for maximum audio output.
2. Set the signal generator to 380 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer C136 for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 170 kHz, tune the receiver to the same frequency and adjust a slug core of LW ferrite rod antenna and RF coil L108 for maximum output.
5. Set the generator to 350 kHz and tune the receiver to the same frequency and adjust both trimming capacitor (C124 and C129) of antenna and RF tuned circuit for maximum output.
6. Repeat procedures 4 and 5 until no further adjustment is necessary.

3.3 MW Frequency Range and Tracking Alignment

1. Set MW signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L111 for maximum audio output.
2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer C139 for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 600 kHz, tune the receiver to the same frequency and adjust a slug core of MW ferrite rod antenna and RF coil L109 for maximum output.
5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust both trimming capacitor (C125 and C130) of antenna and RF tuned circuit for maximum output.
6. Repeat procedures 4 and 5 until no further adjustment is necessary.

Note: During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

4. FM ALIGNMENT PROCEDURE

1. Connect an FM signal generator to the FM antenna terminals and an oscilloscope and an audio distortion analyzer to the tape output jack on the rear panel.
2. Set the FM SG to 87 MHz and provide about 3 to 5 μ V. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L104 to obtain maximum audio output.
3. Set the FM SG to 109 MHz and provide about 3 to 5 μ V. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C118 for maximum output.
4. Repeat steps 2 and 3 until no further adjustment is necessary.
5. Set the FM SG to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101, RF coil L102 and L103 and IF transformer L105 for minimum audio distortion.

6. Set the FM SG to 106 MHz and tune the receiver to the same frequency. Decrease the signal generator output until the audio output level decreases with the decreasing generator output. Adjust the trimming capacitors of antenna and RF tuning circuits for minimum distortion.
7. Repeat steps 5 and 6 until no further adjustment is necessary.
8. Connect a DC VTVM with 1 V range selected to the resistor R237 (inside) and adjust the secondary core (black) of discriminator transformer L201 so that no voltage reading is obtained on the VTVM at no signal. Next set the FM SG to 98 MHz and increase the output level 1 μ V, then tune the receiver to the same frequency so that no deflection is obtained on the VTVM. Adjust primary core (pink) of L201 for minimum distortion.

5. STEREO SEPARATION ALIGNMENT

1. Set the FM SG to provide 1 μ V at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Then turn off the modulation of the FM SG, connect a frequency counter to test point R312 (point C) and adjust R304 so that the frequency counter may precisely read 19 kHz.
2. Modulate the FM SG with stereo composite signal consisting of only L or R channel (of course a pilot signal must be included).
3. Adjust the trimming resistor R303 for maximum and same separation in both channels.

6. MUTING THRESHOLD ADJUSTMENT

Set the FM SG output to provide 12.5 μ V (IHF) at 98 MHz and tune receiver to the same frequency. Adjust the trimming resistor R253 for the threshold level of 12.5 μ V. (During this adjustment turn the MUTING pushswitch "on".)

7. POWER AMPLIFIER ADJUSTMENT

Connect a VTVM between J712(+) and J718(-) and adjust the trimming resistor R733 until the VTVM reads 20 mV DC, and next, connect a VTVM between J723 and J722 (GROUND) and adjust the trimming resistor R711 until the VTVM reads 0 mV DC. Do over again. For the other channel, connect the VTVM between J713(+) and J719(-) and adjust the R734 for the same reading, and connect the VTVM between J724 and J722 and adjust the R712 for the same reading. Do over again.

8. POWER SUPPLY ADJUSTMENT

Connect a VTVM between J812(+) and J811(-) and adjust R808 until the VTVM reads 35.0 V under no signal condition.

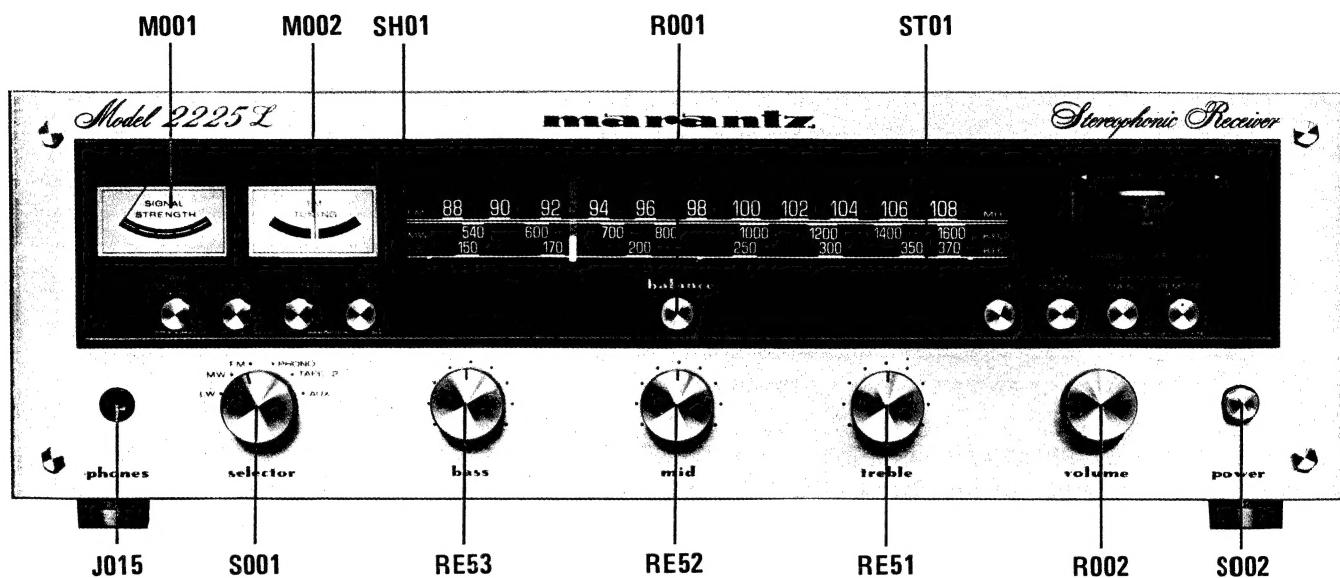


Figure 2. Front Panel Adjustments and Component Locations

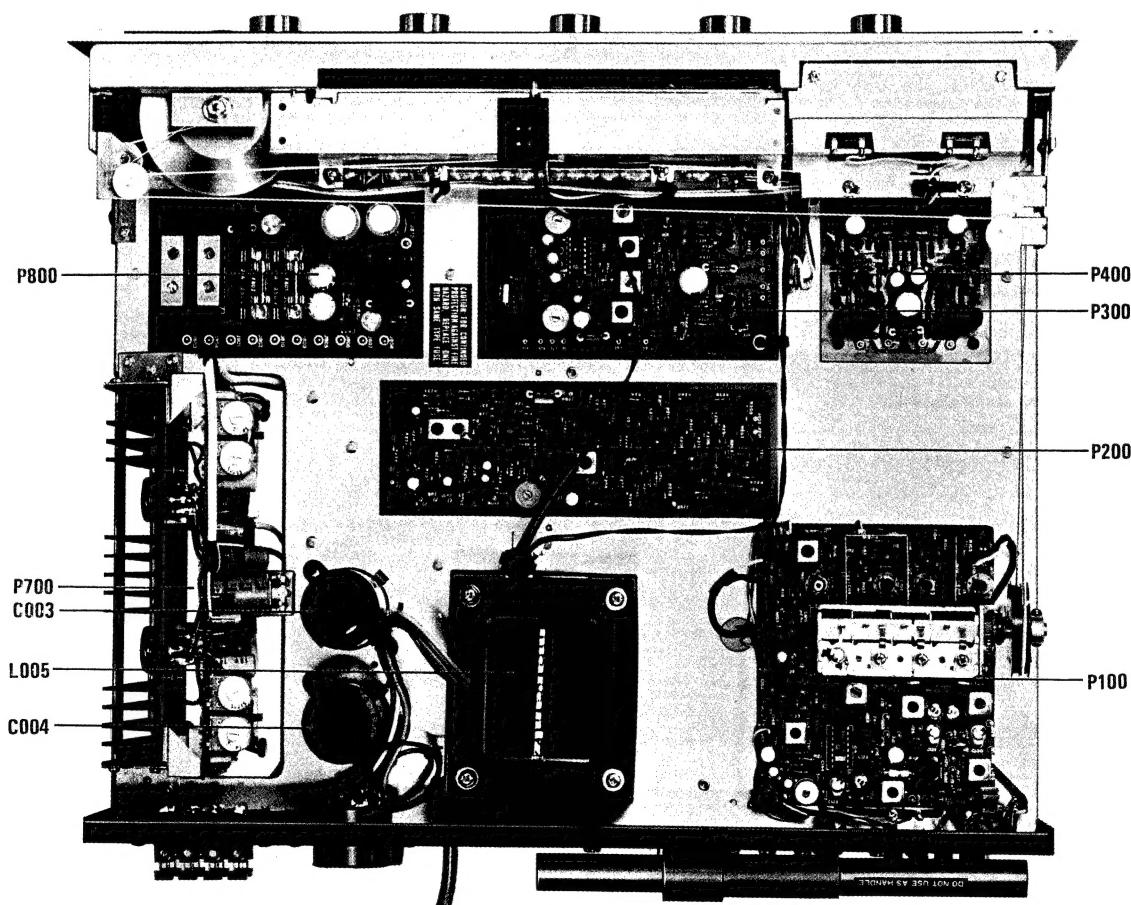


Figure 3. Main Chassis Component Locations (Top View)

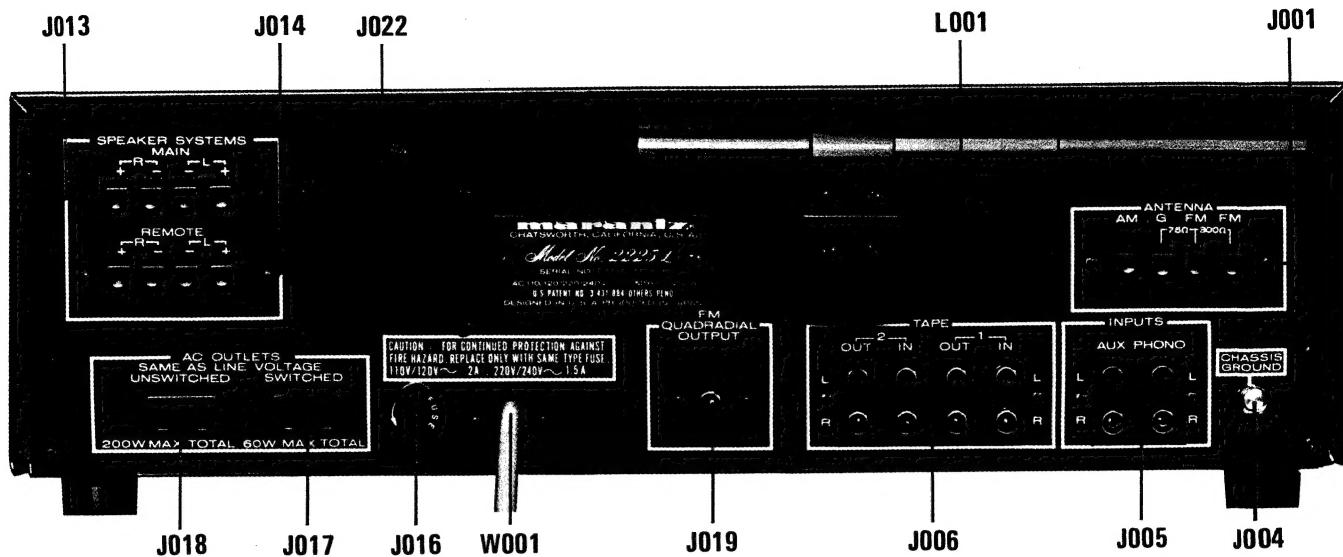


Figure 4. Rear Panel Adjustment and Component Locations

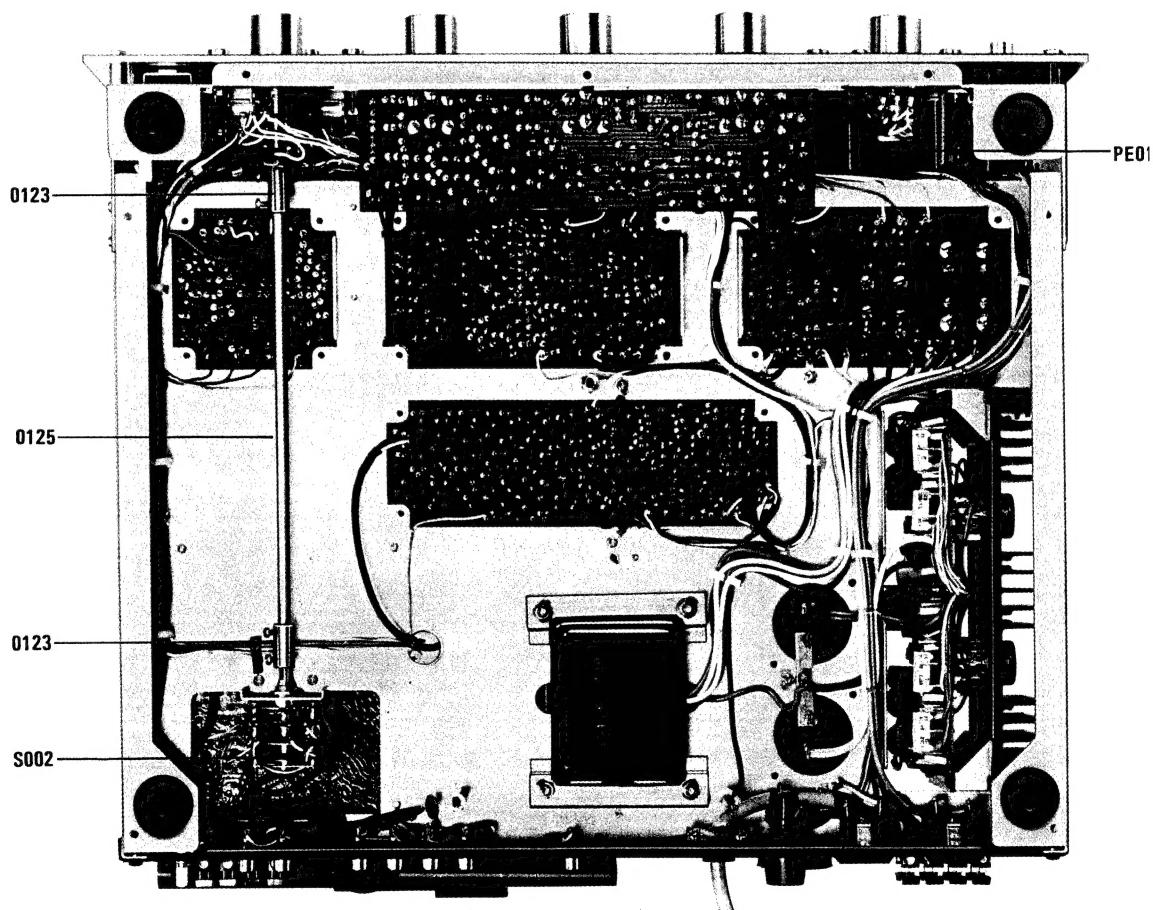


Figure 5. Main Chassis Component Locations (Bottom View)

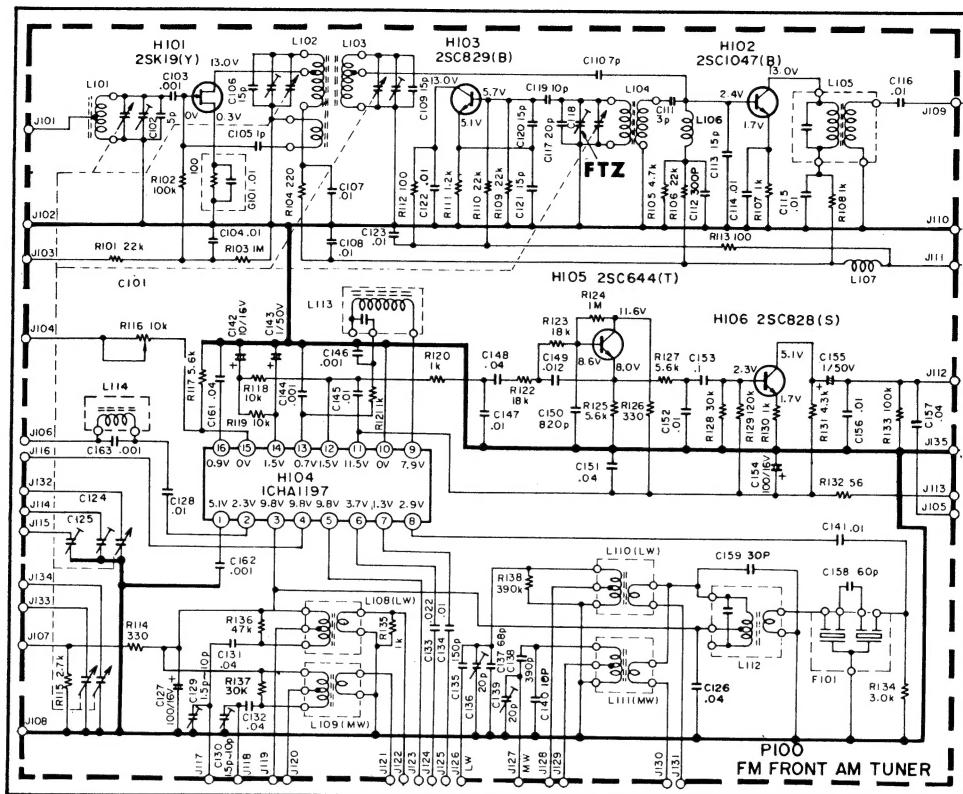


Figure 6. FM AM Front End Assembly (P100) Schematic Diagram

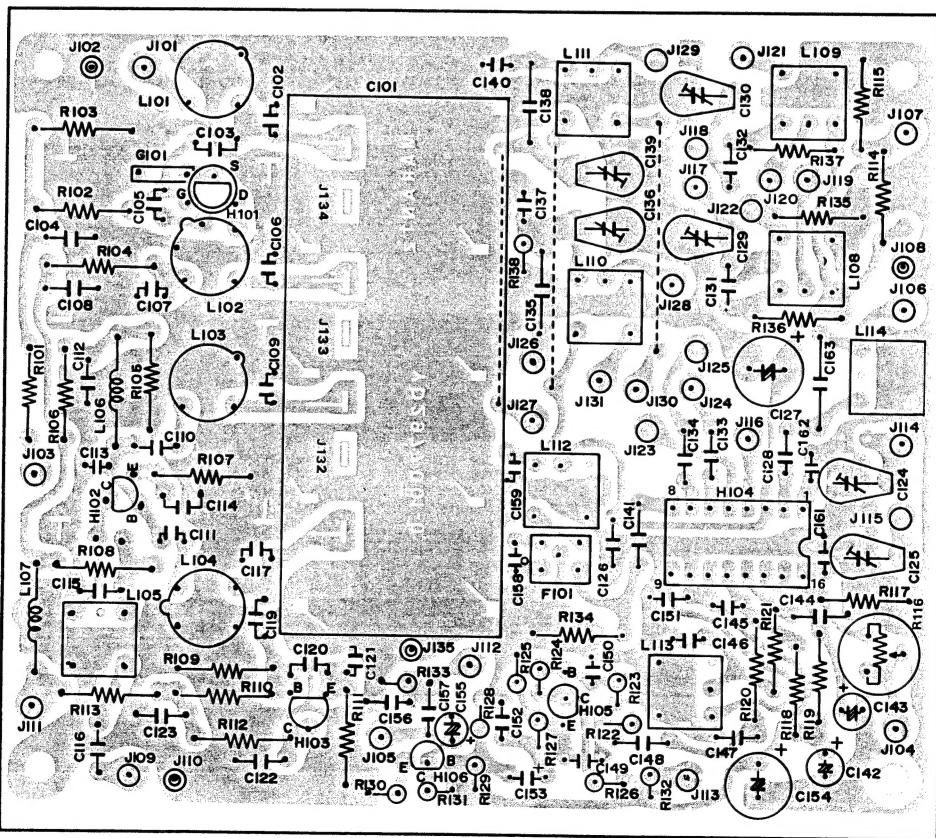


Figure 7. FM AM Front End Assembly (P100) Component Locations

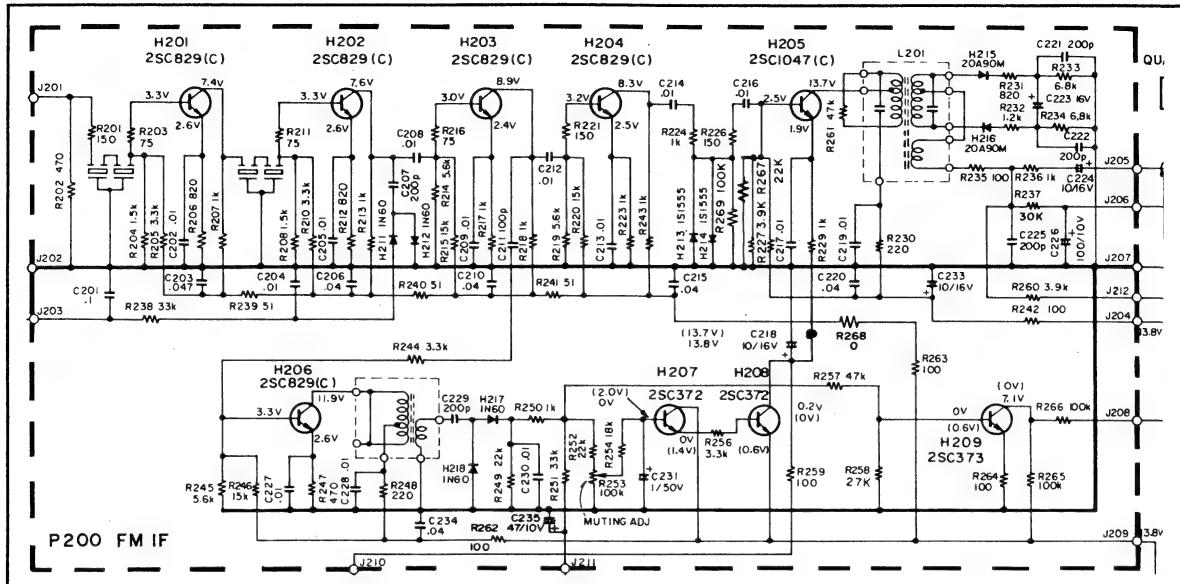


Figure 8. FM IF Amplifier, Detector, Muting Control and Meter Amplifier Unit Assembly (P200) Schematic Diagram

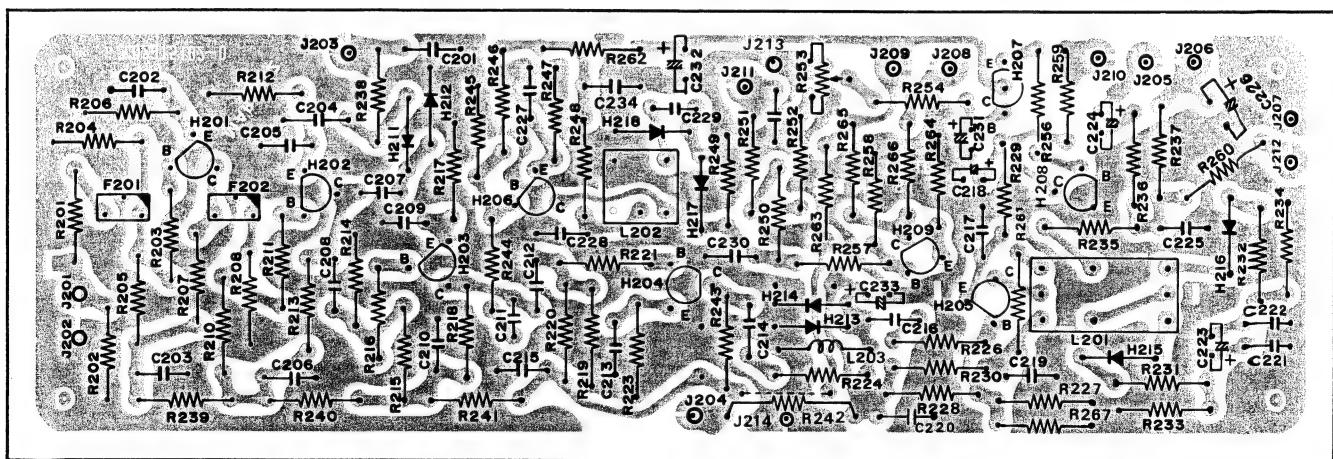


Figure 9. FM IF Amplifier, Detector, Muting Control and Meter Amplifier Unit Assembly (P200) Component Locations

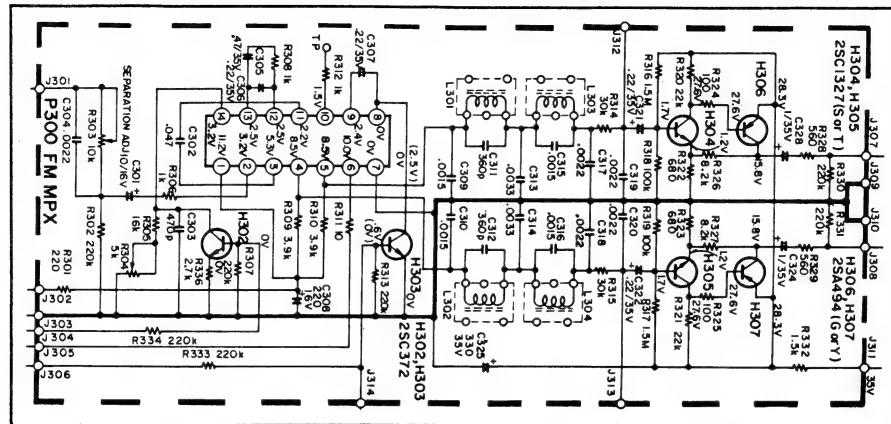


Figure 10. FM MPX Stereo Decoding Amplifier Assembly (P300) Schematic Diagram

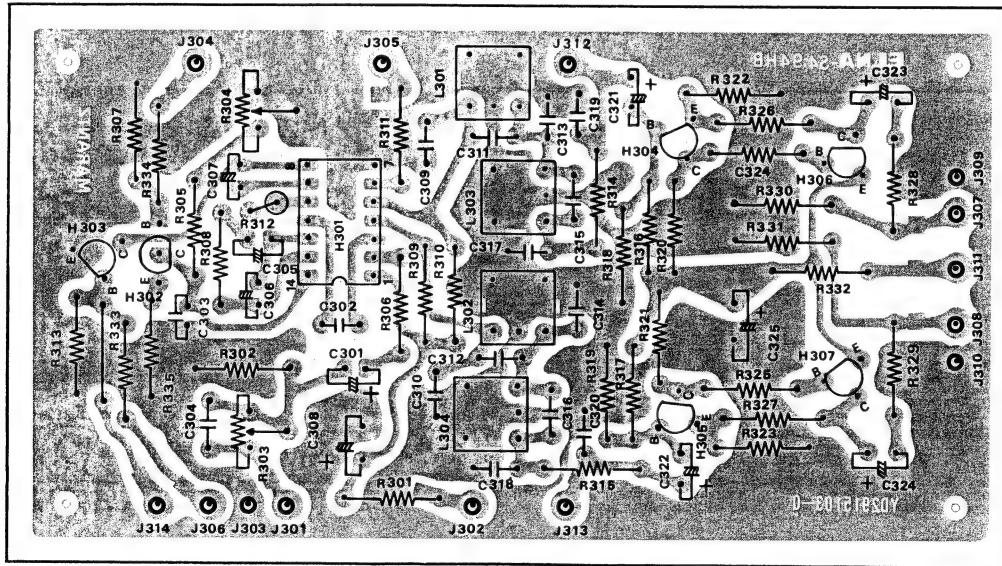


Figure 11. FM MPX Stereo Decoding Amplifier Assembly (P300) Component Locations

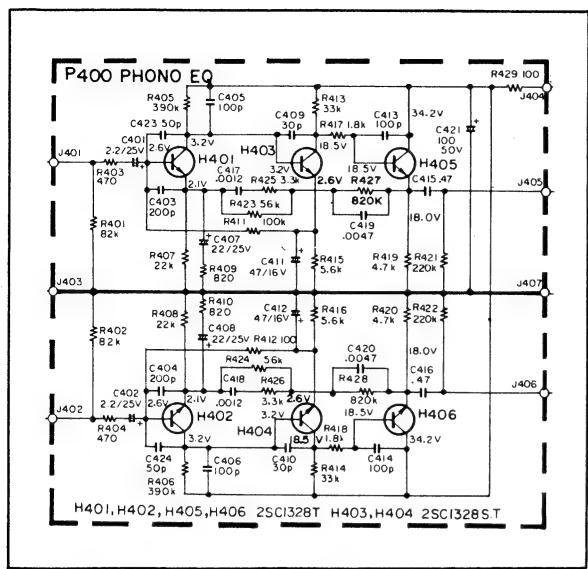


Figure 12. EQ. Amplifier Assembly (P400)
Schematic Diagram

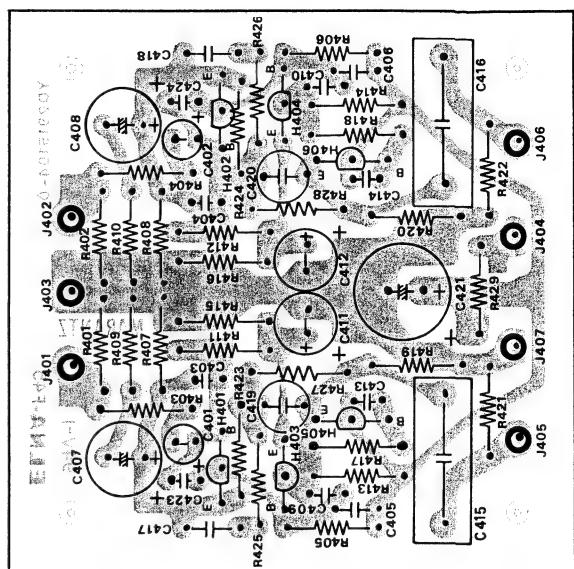


Figure 13. EQ. Amplifier Assembly (P400)
Component Locations

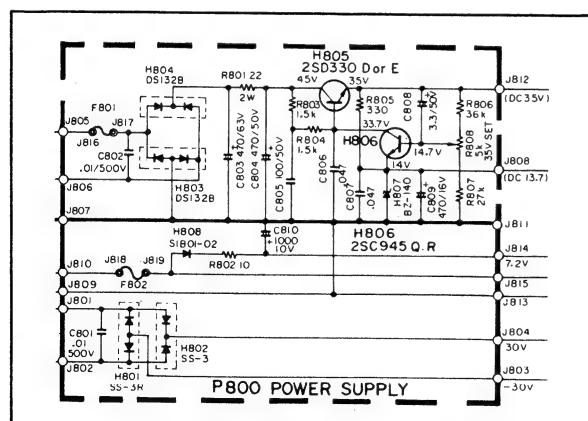


Figure 14. Power Supply Assembly (P800)
Schematic Diagram

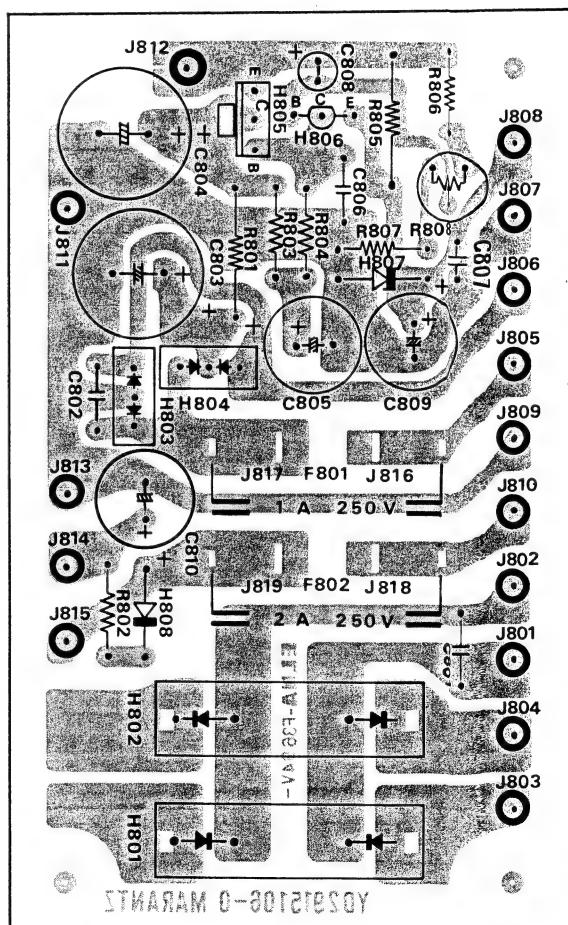


Figure 15. Power Supply Assembly (P800)
Component Locations

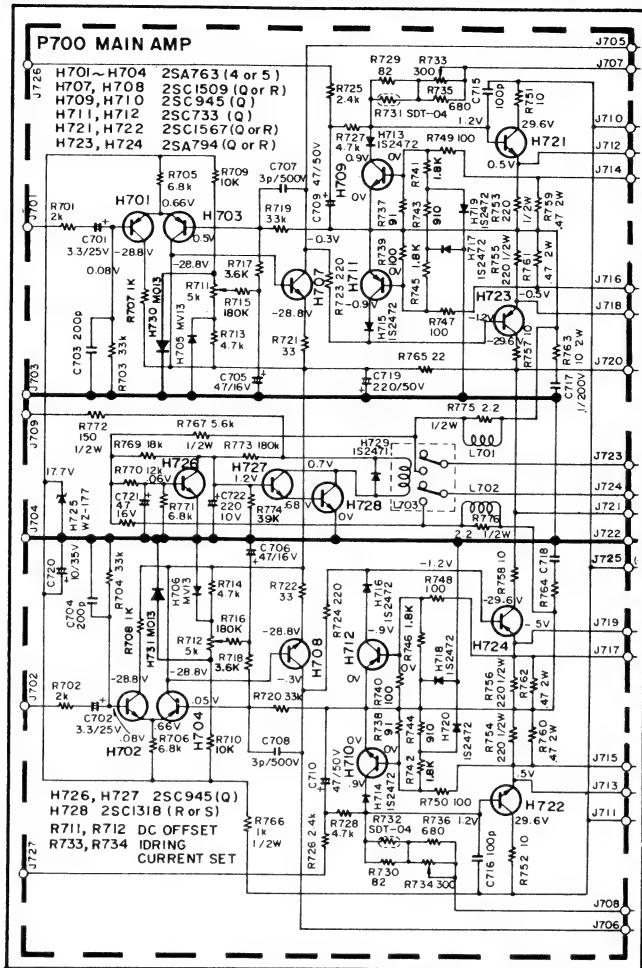


Figure 16. Main Amplifier Assembly (P700) Schematic Diagram

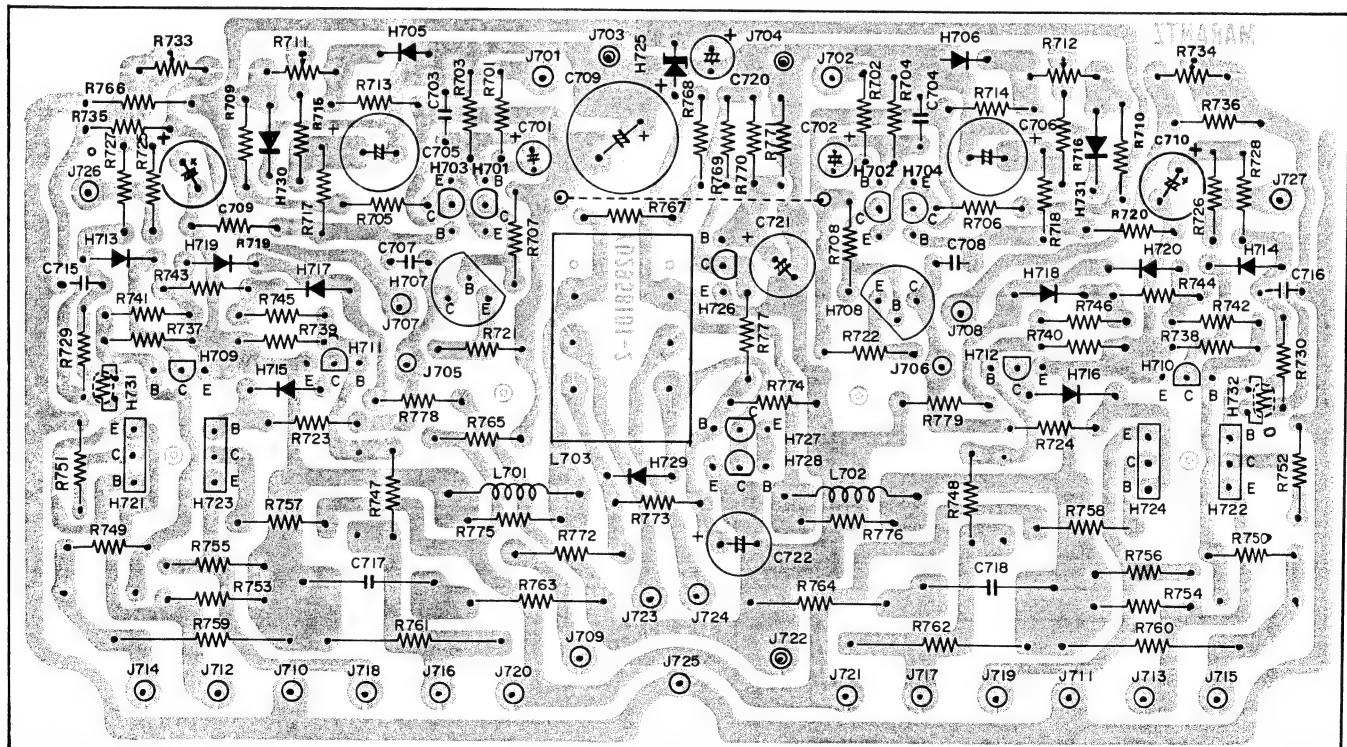


Figure 17. Main Amplifier Assembly (P700) Component Locations

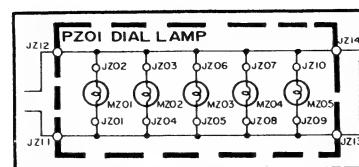


Figure 18. Dial Lamp Assembly (PZ01) Schematic Diagram



Figure 19. Dial Lamp Assembly (PZ01) Component Locations

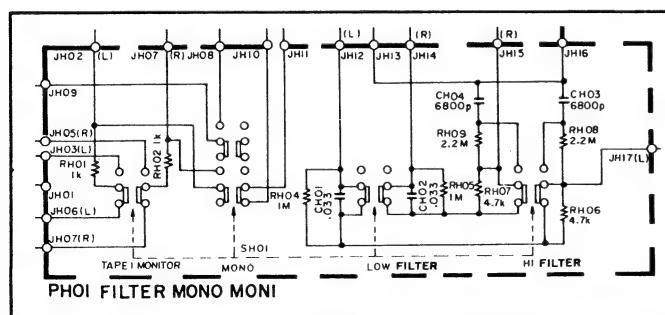


Figure 20. Filter Assembly (PH01) Schematic Diagram

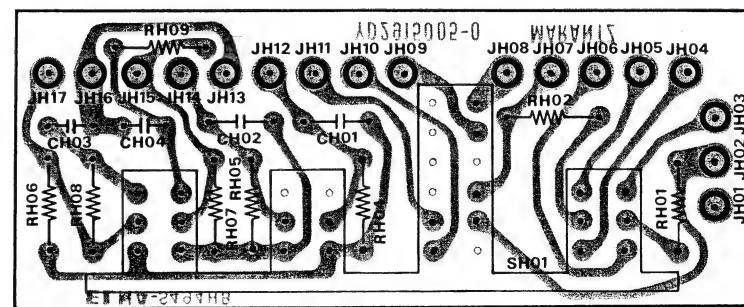


Figure 21. Filter Assembly (PH01) Component Locations

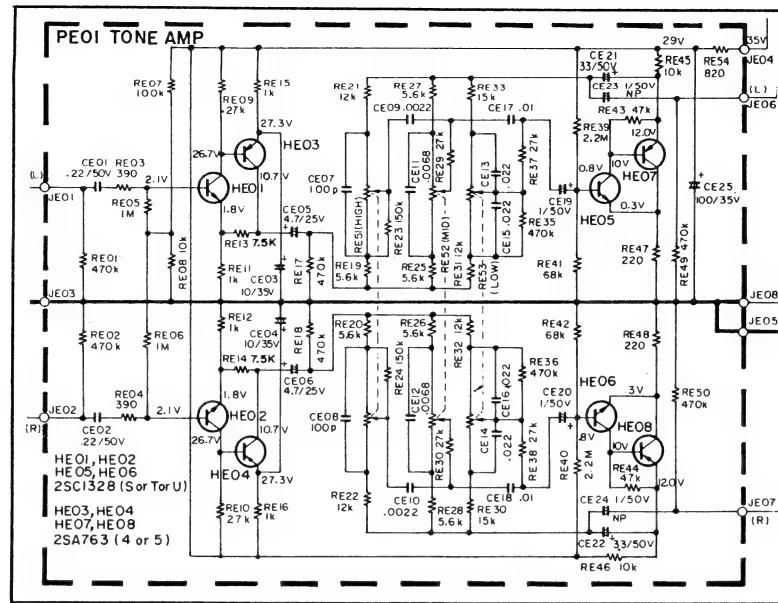


Figure 22. Pre-Tone Amplifier Assembly (PE01) Schematic Diagram

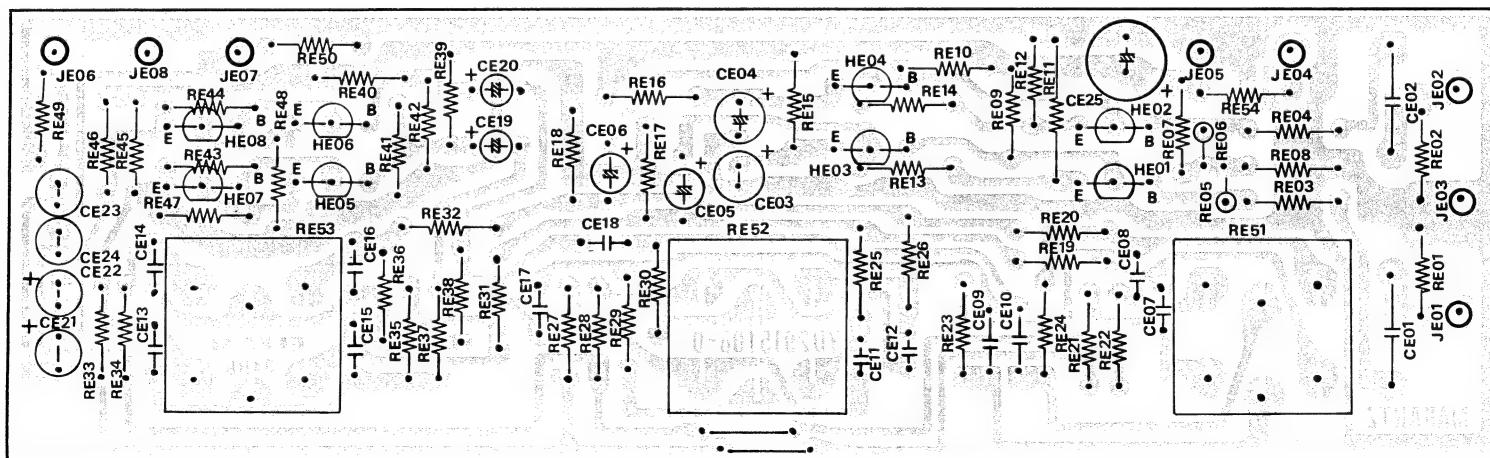


Figure 23. Pre-Tone Amplifier Assembly (PE01) Component Locations

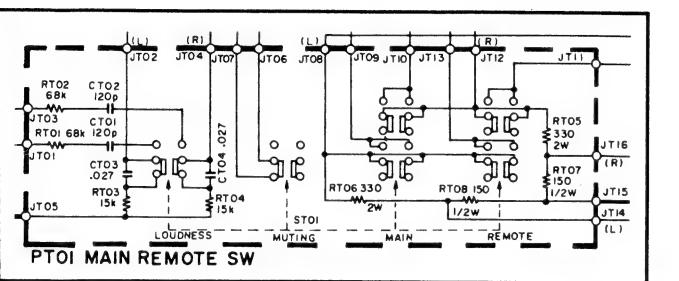


Figure 24. Main and Remote Switch Assembly (PT01) Schematic Diagram

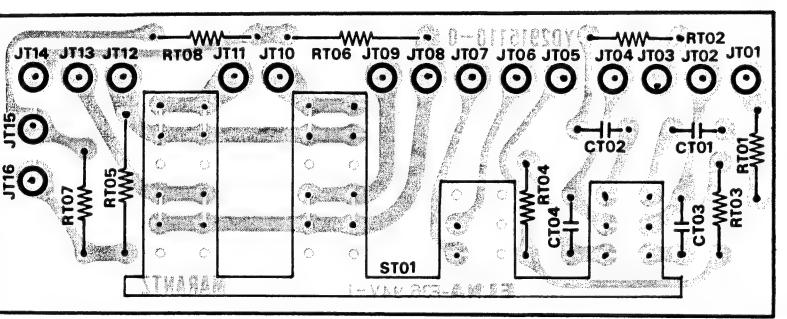
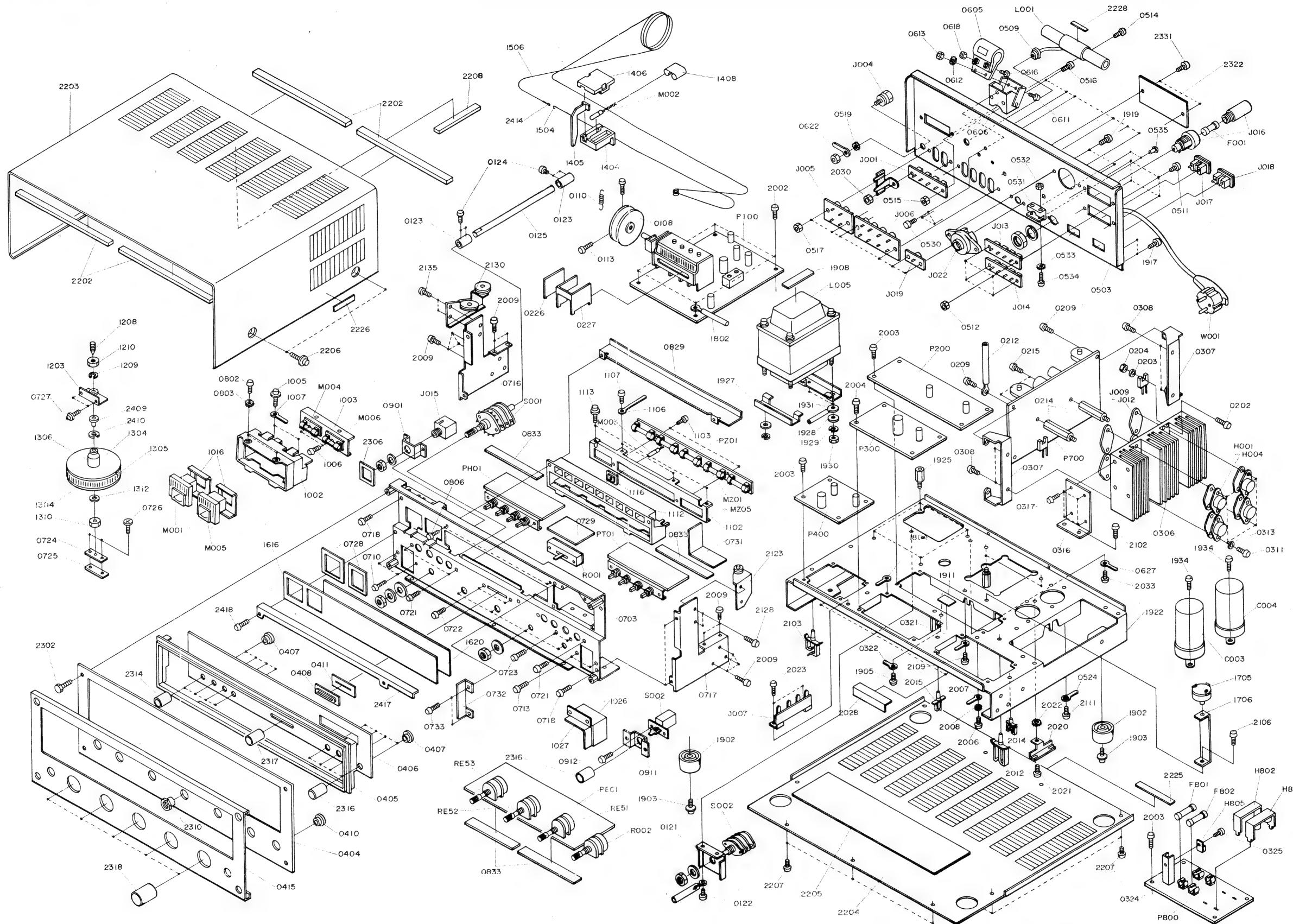
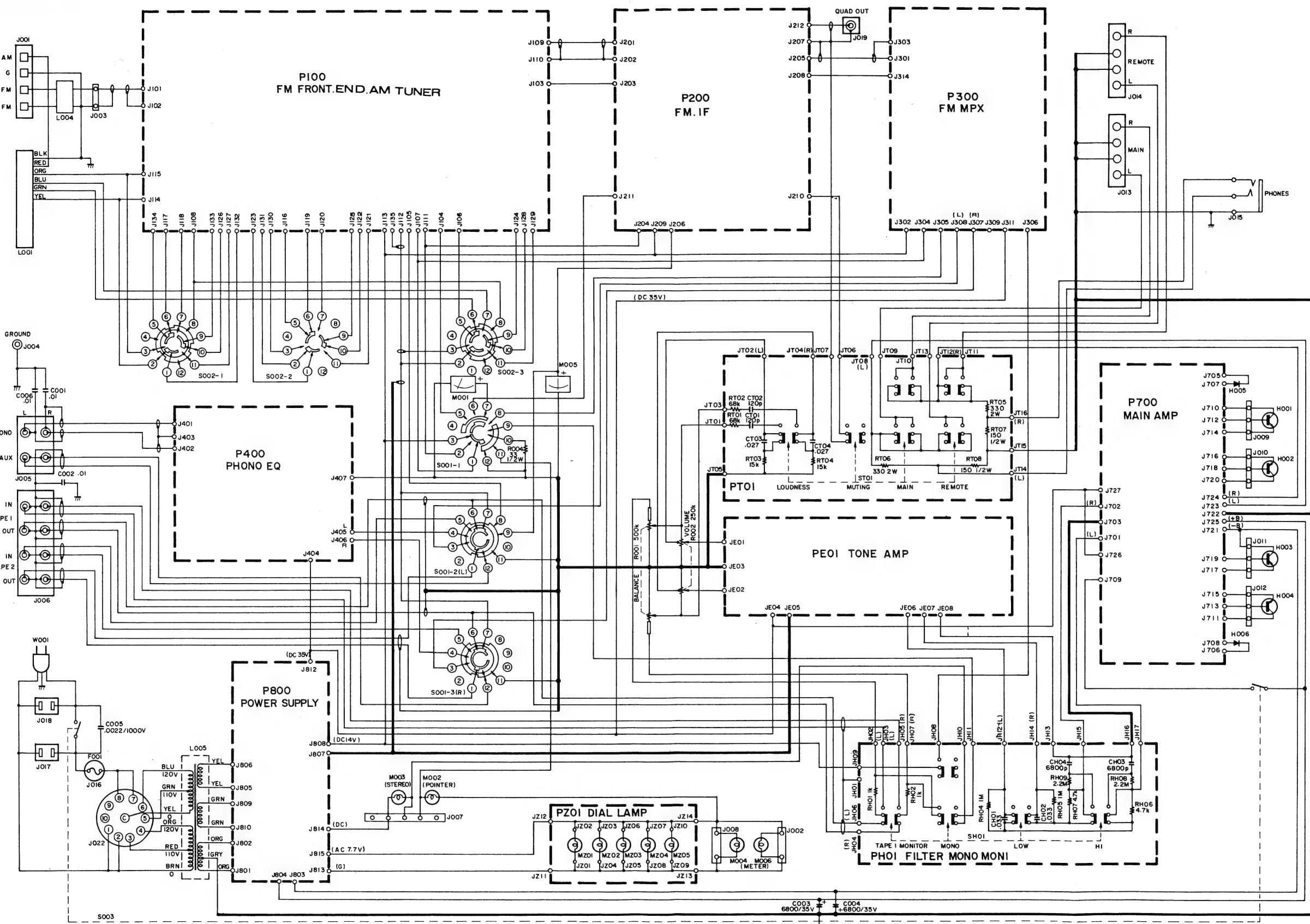
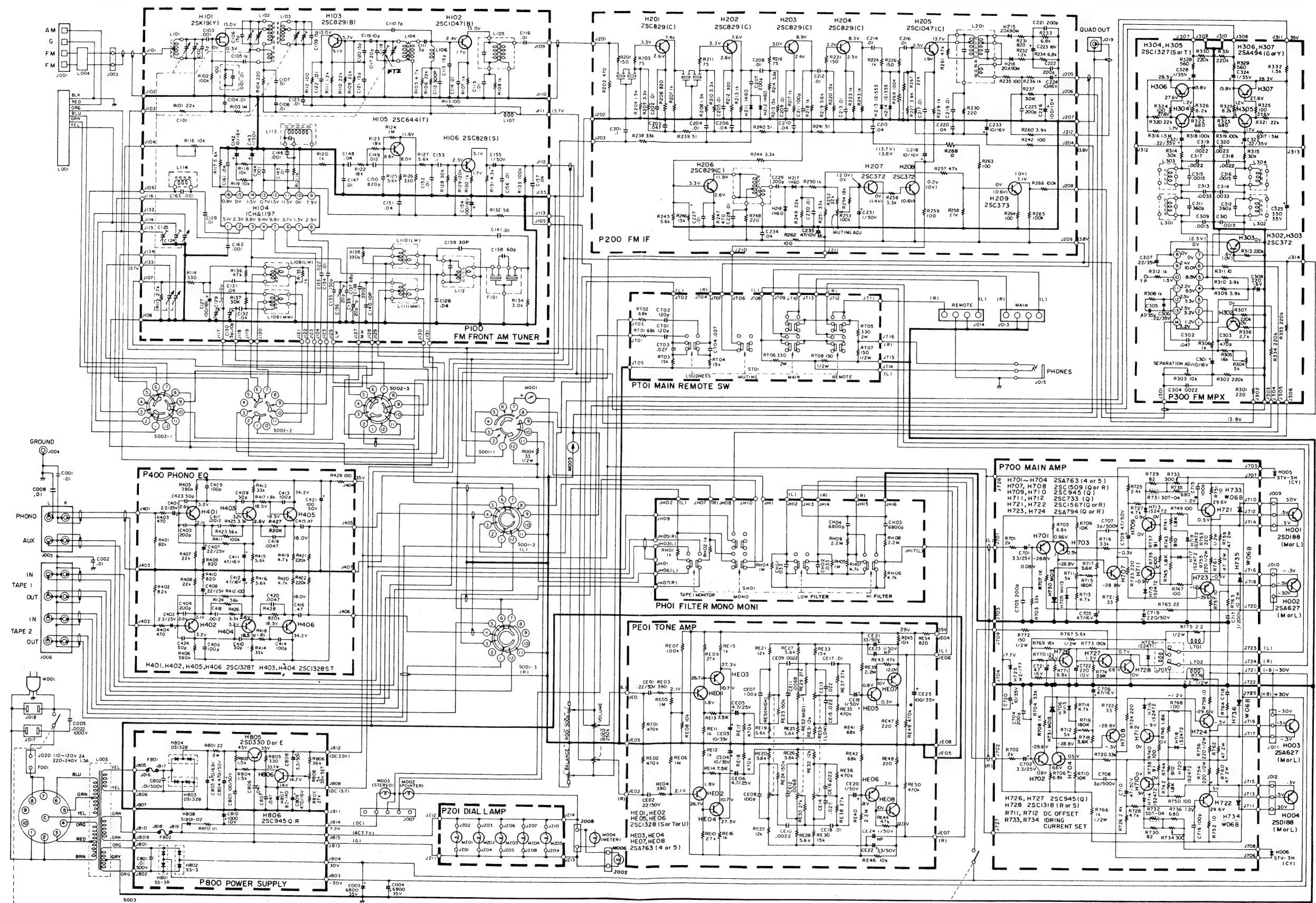


Figure 25. Main and Remote Switch Assembly (PT01) Component Locations







Parts List

REF DESIG.	Q'TY	PART NO.	DESCRIPTION	REF DESIG.	Q'TY	PART NO.	DESCRIPTION
A	1	297706340	Front Panel Assembly	0308	4	51380305P	R.H. Tapped Screw, R3 x 5
0404	1	297706301	Escutcheon	0311	8	51100314E	B.H.M. Screw, B3 x 14'
0405	1	285340101	Frame	0313	8	54040302N	Spring Wahser
0406	1	293415801	Window	0316	2	282016007	Bracket
0407	8	288625901	Bushing	0317	8	51380306P	R.H. Tapped Screw, R3 x 6
0408	1	285425901	Bushing	0321	1	62030039W	Lug
0410	1	281825905	Bushing	0322	1	62030039W	Lug
0411	1	291510701	Sheet	0324	1	291526702	Heatsink
0415	1	291505301	Cover	0325	1	51100306E	B.H.M. Screw, B3 x 6
B	1	285327340	Flywheel Assembly	0503	1	293416022	Bracket
1304	2	257706302	Escutcheon	0509	1	145525907	Bushing
1305	1	257727301	Flywheel	0511	4	51100308S	B.H.M. Screw, B3 x 8
1306	1	285311201	Shaft	0512	4	53110303E	Hexagon Nut
1310	1	53110603E	Hexagon Nut	0514	2	51100308S	B.H.M. Screw, B3 x 8
1312	1	54020601E	Flat Washer, P	0515	2	53110303E	Hexagon Nut
C	1	291510341	Pointer Assembly	0516	6	51100308S	B.H.M. Screw, B3 x 8
1404	1	291510301	Pointer	0517	6	53110303E	Hexagon Nut
1405	1	282610301	Pointer	0519	1	54050400R	T.L. Washer, OR
1406	1	291510302	Pointer	0524	1	62030039W	Lug
1408	1	291526703	Heatsink	0530	3	51100306S	B.H.M. Screw, B3 x 6
M002	1	IN10008030	Lamp	0531	1	282125901	Bushing
D	1	120200640	Hook Assembly	0532	2	53110303A	Hexagon Nut
1504	1	120225801	Hook	0533	2	54050300R	T.L. Washer
1506	1	72080802A	String	0534	2	51060316A	P.H.M. Screw, P3 x 16
E	1	281915943	Drum Assembly	0535	2	55060305S	T.R. Rivet
0108	1	281915901	Drum	0605	1	281927103	Holder
0110	1	71101689L	Spring	0606	1	257816052	Bracket, K
0113	2	51064019A	Set Screw	0611	2	51100310S	B.H.M. Screw, B3 x 10
				0612	2	54050300R	T.L. WASher, OR
				0613	2	53110303E	Hexagon Nut
				0616	2	51100310S	B.H.M. Screw, B3 x 10
				0618	2	53110303E	Hexagon Nut
				0622	1	62041760W	Lug
				0627	1	62030039W	Lug
				0703	1	291516050	Bracket, K
				0710	2	51100306A	B.H.M. Screw, B3 x 6
				0713	2	51100306A	P.H.M. Screw, P3 x 6
				0716	1	281816003	Bracket
				0717	1	281816004	Bracket
0121	1	293416001	Bracket	0718	4	51100405A	B.H.M. Screw, B4 x 5
0122	2	51570306B	P.H. Tapped Screw, P3 x 6	0721	4	51100306A	B.H.M. Screw, B3 x 6
0123	2	289612501	Joint	0722	2	51100306A	B.H.M. Screw, B3 x 6
0124	4	51064019A	Screw	0723	2	51100305A	B.H.M. Screw, B3 x 5
0125	1	293411201	Shaft	0724	1	257710602	Bearing
0202	2	51440314A	P.H.M. Screw S, P3 x 14	0725	1	141511801	Spacer
0203	2	54020301A	Flat Washer	0726	2	51040306A	F.H.M. Screw, F3 x 6
0204	2	53110303A	Hexagon Nut	0727	2	51490306A	B.H.M. Screw FS, B3 x 6
0209	4	51100306S	B.H.M. Screw, B3 x 6	0728	2	287105302	Cover
0212	1	121000501	Clamper	0729	1	291512004	Insulator
0214	2	281810104	Support	0731	1	281912005	Insulator
0215	2	51100306S	B.H.M. Screw, B3 x 6	0732	1	285326901	Protector
0220	2	116900502	Clamper	0733	2	51570305B	P.H. Tapped Screw, P3 x 5
0221	2	51102606B	B.H.M. Screw, B2.6 x 6	0802	2	51570306B	P.H. Tapped Screw, P3 x 6
0222	2	53112603E	Hexagon Nut	0803	2	54050300R	T.L. Washer, OR
0226	1	282110901	Shield	0806	2	51042608A	F.H.M. Screw, F2.6 x 8
0227	1	295810901	Shield	0829	1	287105102	Guide
0306	1	291526701	Heatsink	0833	4	288612002	Insulator
0307	2	291516007	Bracket				

REF DESIG.	Q'TY	PART NO.	DESCRIPTION	REF DESIG.	Q'TY	PART NO.	DESCRIPTION
0901	1	291516006	Bracket	2020	1	291516009	Bracket
0911	1	291516005	Bracket	2021	1	51570306B	R.H. Tapped Screw, R3 x 6
0912	2	51060306A	P.H. Screw, P3 x 6	2022	1	54050300R	T.L. Washer, OR
0920	3	292705502	Collar	2023	2	51570306B	P.H. Tapped Screw, P3 x 6
1002	1	288627401	Reflector	2028	2	294212001	Insulator
1003	1	288627102	Holder	2029	1	51570306B	P.H. Tapped Screw, P3 x 6
1005	2	51480306A	B.H.M. Screw F, B3 x 6	2030	1	54050300R	T.L. Washer, OR
1006	2	51570305B	P.H. Tapped Screw, P3 x 5	2033	1	51570306B	P.H. Tapped Screw, P3 x 6
1007	1	138200503	Clamper	2102	4	51570306B	P.H. Tapped Screw, P3 x 6
1016	2	288610701	Sheet	2106	1	51570306B	P.H. Tapped Screw, P3 x 6
1026	1	291510903	Shield	2109	1	51570306B	P.H. Tapped Screw, P3 x 6
1027	1	291512003	Insulator	2111	1	51570306B	P.H. Tapped Screw, P3 x 6
1102	1	287127101	Holder	2123	1	291526250	Pulley, K
1103	2	51570305B	P.H. Tapped Screw, P3 x 5	2128	2	51100306A	B.H.M. Screw, B3 x 6
1106	2	287100501	Clamper	2130	1	295826250	Pulley, K
1107	2	51100306A	B.H.M. Screw, B3 x 6	2135	2	51100306A	B.H.M. Screw, B3 x 6
1112	1	287127401	Reflector	2202	4	257711807	Spacer
1113	2	51480306A	B.H.M. Screw F, B3 x 6	2203	1	281825701	Lid
1116	1	287425901	Bushing	2204	1	281825702	Lid
1203	1	285310650	Bearing, K	2205	1	291512001	Insulator
1208	1	51640410D	Set Screw C.P.	2206	4	51480406S	B.H.M. Screw F, B4 x 6
1209	1	54040402N	Spring Washer	2207	10	51100406S	B.H.M. Screw, B4 x 6
1210	1	53110403E	Hexagon Nut	2208	1	295805601	Buffer
1616	1	297730201	Dial	2225	1	257886101	Label, UL Caution
1620	1	285610701	Sheet	2226	1	293286101	Label, Do not remove. See marking.....
1705	1	290825901	Bushing	2228	1	250626506	Indicator, Do not use as Handle.
1706	1	292716005	Bracket	2233	1	951091101	Label, LL No.
1802	1	121000501	Clamper	2234	1	282186102	Label, Fuse Caution
1804	1	121000501	Clamper	2235	1	951091102	Label, UL Factory Code
1902	4	293205701	Leg	2302	4	52017039J	H. Head Bolt
1903	4	51440410S	P.H.M. Screw S, P4 x 10	2306	1	289610701	Sheet
1905	1	51570306B	P.H. Tapped Screw, P3 x 6	2310	1	289205502	Collar
1908	1	288686101	Label, on Power Transformer	2314	8	288615403	Knob
1911	1	951022101	Label, Fuse Caution	2316	1	290415404	Knob
1917	6	51100306S	B.H.M. Screw, B3 x 6	2317	1	285015401	Knob
1919	2	51100306S	B.H.M. Screw, B3 x 6	2318	5	281815403	Knob
1922	1	297710550	Chassis, K	2322	1	297726501	Indicator
1925	4	285110101	Support	2331	2	51100306S	B.H.M. Screw, B3 x 6
1927	2	295800502	Clamper	2409	1	285011202	Shaft
1928	4	54020401A	Flat Washer, P	2410	1	54040402N	Spring Washer
1929	4	54040402A	Spring Washer	2414	1	56332040G	Eyelet
1930	4	53110403A	Hexagon Nut	2417	1	291526901	Protector
1931	2	282100501	Clamper	2418	2	51570305B	P.H. Tapped Screw, P3 x 5
1932	1	62030039W	Lug	2424	4	952301511	Serial No. Card
1933	1	51570306B	P.H. Tapped Screw, P3 x 6	2502	1	297785131	Instruction, Set
1934	4	51570306S	P.H. Tapped Screw, P3 x 6	2511	1	297785601	Schematic
2002	4	51100306S	B.H.M. Screw, B3 x 6	2536	1	281885112	Instructions, "Important"
2003	16	51570306S	P.H. Tapped Screw, P3 x 6	2537	1	963000018	Guarantee Card
2006	1	51570306B	P.H. Tapped Screw, P3 x 6	2538	1	281885114	Instructions, Packing
2007	1	121000501	Clamper	2602	1	ZA0200007	Ext. Antenna
2008	1	54050300R	T.L. Washer, OR	2703	1	281881301	Envelope
2009	10	51570305B	P.H. Tapped Screw, P3 x 5	2713	1	297780101	Packing Case, Inner
2012	2	288600503	Clamper	2714	1	297780111	Packing Case, Outer
2013	4	288600502	Clamper	2719	1	281880304	Cushion
2014	2	288600505	Clamper	2720	1	281880305	Cushion
2015	2	288600506	Clamper	2723	1	901483838	Polyethylene Bag, Set
				2725	1	901302501	Polyethylene Bag, Printed Matter

REF DESIG.	Q'TY	PART NO.	DESCRIPTION	REF DESIG.	Q'TY	PART NO.	DESCRIPTION
2726	1	901302501	Polyethylene Bag, Accessories	L102	1	LA1202802	RF Coil
2728	1	102980401	Sleeve	L103	1	LA1202803	RF Coil
2729	1	956000004	Hang Tag	L104	1	LO1202801	Osc. Coil
2730	1	273182101	Silicagel	L105	1	LI1015801	FM IFT
2731	1	281905601	Buffer	L106	1	LC1751001	Choke Coil
2732	1	291810713	Sheet	L107	1	LC1332002	Choke Coil
P100 FM AM FRONT END BOARD				L108	1	LA1029001	LW RF Coil
P100	1	YD2977001	P.W. Board	L109	1	LA1001020	MW RF Coil
	1	ZZ2977001	P.W. Board Assembly	L110	1	LO1001052	LW Osc. Coil
L111	1	LO1001048	MW Osc. Coil				
G101	1	BF1030003	Printed Comp., 0.01μF	L112	1	LI1001501	AM IFT
R101	1	RT0522314	Resistor, 22kΩ ±5% 1/4W	L113	1	LI1001064	AM IFT
R102	1	RT0510414	Resistor, 100kΩ ±5% 1/4W	L114	1	LO1001042	Trap Coil
R103	1	RT0510514	Resistor, 1MΩ ±5% 1/4W	C101	1	CA4330003	Variable Cap., Tuning
R104	1	RT0522114	Resistor, 220Ω ±5% 1/4W	C102	1	DD1205001	Ceramic Cap., 5pF ±10%
R105	1	RT0547214	Resistor, 4.7kΩ ±5% 1/4W	C103	1	DK1710201	Ceramic Cap., 0.001μF ±20%
R106	1	RT0522314	Resistor, 22kΩ ±5% 1/4W	C104	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R107	1	RT0510214	Resistor, 1kΩ ±5% 1/4W	C105	1	DD1001001	Ceramic Cap., 1pF ±0.25pF
R108	1	RT0510214	Resistor, 1kΩ ±5% 1/4W	C106	1	DD1615001	Ceramic Cap., 15pF ±10%
R109	1	RT0522314	Resistor, 22kΩ ±5% 1/4W	C107	1	DK1710201	Ceramic Cap., 0.001μF ±20%
R110	1	RT0522314	Resistor, 22kΩ ±5% 1/4W	C108	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R111	1	RT0512214	Resistor, 1.2kΩ ±5% 1/4W	C109	1	DD1615001	Ceramic Cap., 15pF ±10%
R112	1	RT0510114	Resistor, 100Ω ±5% 1/4W	C110	1	DD1207001	Ceramic Cap., 7pF ±1pF
R113	1	RT0510114	Resistor, 100Ω ±5% 1/4W	C111	1	DD1103001	Ceramic Cap., 3pF ±0.5pF
R114	1	RT0533114	Resistor, 330Ω ±5% 1/4W	C112	1	DD1530101	Ceramic Cap., 300pF ±5%
R115	1	RC1027212	Resistor, 2.7kΩ ±10% 1/4W	C113	1	DD1615001	Ceramic Cap., 15pF ±10%
R116	1	RA0103020	Trimming Resistor, 10kΩ	C114	1	DK1710201	Ceramic Cap., 0.001μF ±20%
R117	1	RT0556214	Resistor, 5.6kΩ ±5% 1/4W	C115	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R118	1	RT0510314	Resistor, 10kΩ ±5% 1/4W	C116	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R119	1	RT0510314	Resistor, 10kΩ ±5% 1/4W	C117	1	DD1520002	Ceramic Cap., 20pF ±5%
R120	1	RT0510214	Resistor, 1kΩ ±5% 1/4W	C118	1	CT1100008	Trimming Cap., 1.5pF ~ 10pF
R121	1	RT0510214	Resistor, 1kΩ ±5% 1/4W	C119	1	DD1210006	Ceramic Cap., 10pF ±1pF
R122	1	RT0518314	Resistor, 18kΩ ±5% 1/4W	C120	1	DD1615003	Ceramic Cap., 15pF ±10%
R123	1	RT0518314	Resistor, 18kΩ ±5% 1/4W	C121	1	DD1615003	Ceramic Cap., 15pF ±10%
R124	1	RT0510514	Resistor, 1MΩ ±5% 1/4W	C122	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R125	1	RT0556214	Resistor, 5.6kΩ ±5% 1/4W	C123	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R126	1	RT0533114	Resistor, 330Ω ±5% 1/4W	C124	1	CT1200001	Trimming Cap., 20pF
R127	1	RT0556214	Resistor, 5.6kΩ ±5% 1/4W	C125	1	CT1100001	Trimming Cap., 1.5pF ~ 10pF
R128	1	RT0530314	Resistor, 30kΩ ±5% 1/4W	C126	1	DK1840302	Ceramic Cap., 0.04μF ±8%
R129	1	RT0512414	Resistor, 120kΩ ±5% 1/4W	C127	1	EA1070169	Electrolytic Cap., 100μF 16V
R130	1	RT0510214	Resistor, 1kΩ ±5% 1/4W	C128	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R131	1	RT0543214	Resistor, 4.3kΩ ±5% 1/4W	C129	1	CT1100001	Trimming Cap., 1.5pF ~ 10pF
R132	1	RT0556014	Resistor, 56Ω ±5% 1/4W	C130	1	CT1100001	Trimming Cap., 1.5pF ~ 10pF
R133	1	RT0510414	Resistor, 100kΩ ±5% 1/4W	C131	1	DF1740301	Film Cap., 0.04μF ±20%
R134	1	RT0530214	Resistor, 3.0kΩ ±5% 1/4W	C132	1	DF1740301	Film Cap., 0.04μF ±20%
R135	1	RT0510214	Resistor, 1kΩ ±5% 1/4W	C133	1	DF1722301	Film Cap., 0.022μF ±20%
R136	1	RT0547314	Resistor, 47kΩ ±5% 1/4W	C134	1	DK1710301	Ceramic Cap., 0.01μF ±20%
R137	1	RT0530314	Resistor, 30kΩ ±5% 1/4W	C135	1	DF6515150	Film Cap., 150pF ±5%
R138	1	RT0539414	Resistor, 390kΩ ±5% 1/4W	C136	1	CT1200001	Trimming Cap., 20pF
H101	1	HF200191A	FET, 2SK19(Y)	C137	1	DD1668001	Ceramic Cap., 68pF ±10%
H102	1	HT310471B	Transistor, 2SC1047 (B)	C138	1	DF6539101	Film Cap., 390pF ±5%
H103	1	HT308291B	Transistor, 2SC 829 (B)	C139	1	CT1200001	Trimming Cap., 20pF
H104	1	HC1001901	IC, HA 1197	C140	1	DD1210001	Ceramic Cap., 10pF ±1pF
H105	1	HT306441C	Transistor, 2SC 644 T	C141	1	DK1710301	Ceramic Cap., 0.01μF ±20%
H106	1	HT308281D	Transistor, 2SC 828 S	C142	1	EA1060169	Electrolytic Cap., 10μF 16V
F101	1	FF1004516	Ceramic Filter, SFD-455D	C143	1	EA1050509	Electrolytic Cap., 1μF 50V
L101	1	LA1202801	Ant. Coil	C144	1	DK1710201	Ceramic Cap., 0.001μF ±20%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION			REF DESIG.	Q'TY	PART NO.	DESCRIPTION		
C145	1	DF1710301	Film Cap.,	0.01μF	±20%	R233	1	RT0568214	Resistor,	6.8kΩ	±5% 1/4W
C146	1	DF1610201	Film Cap.,	0.001μF	±10%	R234	1	RT0568214	Resistor,	6.8kΩ	±5% 1/4W
C147	1	DK1710301	Ceramic Cap.,	0.01μF	±20%	R235	1	RT0510114	Resistor,	100Ω	±5% 1/4W
C148	1	DK1840302	Ceramic Cap.,	0.04μF	±8% 0%	R236	1	RT0510214	Resistor,	1kΩ	±5% 1/4W
C149	1	DF1512301	Film Cap.,	0.012μF	±5%	R237	1	RT0530314	Resistor,	30kΩ	±5% 1/4W
C150	1	DF6582150	Film Cap.,	820pF	±5%	R238	1	RT0533314	Resistor,	33kΩ	±5% 1/4W
C151	1	DK1840302	Ceramic Cap.,	0.04μF	±8% 0%	R239	1	RT0551014	Resistor,	51Ω	±5% 1/4W
C152	1	DF1610301	Film Cap.,	0.01μF	±10%	R240	1	RT0551014	Resistor,	51Ω	±5% 1/4W
C153	1	EV1040356	Film Cap.,	0.1μF	35V	R241	1	RT0551014	Resistor,	51Ω	±5% 1/4W
C154	1	EA1070169	Electrolytic Cap.,	100μF	16V	R242	1	RT0551014	Resistor,	51Ω	±5% 1/4W
C155	1	EE1050501	Electrolytic Cap.,	1μF	50V	R243	1	RT0510214	Resistor,	1kΩ	±5% 1/4W
C156	1	DK1710301	Ceramic Cap.,	0.01μF	±20%	R244	1	RT0533214	Resistor,	3.3kΩ	±5% 1/4W
C157	1	DK1840302	Ceramic Cap.,	0.04μF	±8% 0%	R245	1	RT0556214	Resistor,	5.6kΩ	±5% 1/4W
C158	1	DD1660001	Ceramic Cap.,	60pF	±10%	R246	1	RT0515314	Resistor,	15kΩ	±5% 1/4W
C159	1	DD1630001	Ceramic Cap.,	30pF	±10%	R247	1	RT0547114	Resistor,	470Ω	±5% 1/4W
C161	1	DK1840302	Ceramic Cap.,	0.04μF	±8% 0%	R248	1	RT0522114	Resistor,	220Ω	±5% 1/4W
C162	1	DK1710201	Ceramic Cap.,	0.001μF	±20%	R249	1	RT0522314	Resistor,	22kΩ	±5% 1/4W
C163	1	DF6510201	Film Cap.,	0.001μF	±5%	R250	1	RT0510214	Resistor,	1kΩ	±5% 1/4W
J101	31	YP1000113	Plug			R251	1	RT0533314	Resistor,	33kΩ	±5% 1/4W
J131						R252	1	RT0522314	Resistor,	22kΩ	±5% 1/4W
J135	1	YP1000113	Plug			R263	1	RA0104018	Trimming Resistor,	100kΩ	
J136	1	YP1000113	Plug			R254	1	RT0518314	Resistor,	18kΩ	±5% 1/4W
P200 FM IF BOARD											
P200	1	YD2915102	P.W. Board			R255	1	RT0533214	Resistor,	3.3kΩ	±5% 1/4W
	1	ZZ2977802	P.W. Board Assembly			R256	1	RT0547314	Resistor,	47kΩ	±5% 1/4W
P208	2	293311802	Spacer			R257	1	RT0527314	Resistor,	27kΩ	±5% 1/4W
R201	1	RT0515114	Resistor,	150Ω	±5% 1/4W	R258	1	RT0510114	Resistor,	100Ω	±5% 1/4W
R202	1	RT0547114	Resistor,	470Ω	±5% 1/4W	R259	1	RT0539214	Resistor,	3.9kΩ	±5% 1/4W
R203	1	RT0575014	Resistor,	75Ω	±5% 1/4W	R260	1	RT0547314	Resistor,	47kΩ	±5% 1/4W
R204	1	RT0515214	Resistor,	1.5kΩ	±5% 1/4W	R261	1	RT0510114	Resistor,	100Ω	±5% 1/4W
R205	1	RT0533214	Resistor,	3.3kΩ	±5% 1/4W	R262	1	RT0510114	Resistor,	100Ω	±5% 1/4W
R206	1	RT0582114	Resistor,	820Ω	±5% 1/4W	R263	1	RT0510114	Resistor,	100Ω	±5% 1/4W
R207	1	RT0510214	Resistor,	1kΩ	±5% 1/4W	R264	1	RT0510114	Resistor,	100Ω	±5% 1/4W
R208	1	RT0515214	Resistor,	1.5kΩ	±5% 1/4W	R265	1	RT0510414	Resistor,	100kΩ	±5% 1/4W
R210	1	RT0533214	Resistor,	3.3kΩ	±5% 1/4W	R266	1	RT0510414	Resistor,	100kΩ	±5% 1/4W
R211	1	RT0575014	Resistor,	75Ω	±5% 1/4W	R267	1	RT0522314	Resistor,	22kΩ	±5% 1/4W
R212	1	RT0582114	Resistor,	820Ω	±5% 1/4W	R268	1	RC0000012	Resistor,	0Ω	
R213	1	RT0510214	Resistor,	1kΩ	±5% 1/4W	R269	1	RT0510414	Resistor,	100kΩ	±5% 1/4W
R214	1	RT0556214	Resistor,	5.6kΩ	±5% 1/4W	C201	1	DK1810402	Ceramic Cap.,	0.1μF	±10% 0%
R215	1	RT0515314	Resistor,	15kΩ	±5% 1/4W	C202	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R216	1	RT0575014	Resistor,	75Ω	±5% 1/4W	C203	1	DK1840301	Ceramic Cap.,	0.04μF	±10% 0%
R217	1	RT0510214	Resistor,	1kΩ	±5% 1/4W	C204	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R218	1	RT0510214	Resistor,	1kΩ	±5% 1/4W	C205	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R219	1	RT0556214	Resistor,	5.6kΩ	±5% 1/4W	C206	1	DK1840301	Ceramic Cap.,	0.04μF	±10% 0%
R220	1	RT0515314	Resistor,	15kΩ	±5% 1/4W	C207	1	DD1620101	Ceramic Cap.,	200pF	±10%
R221	1	RT0515114	Resistor,	150Ω	±5% 1/4W	C208	1	DK1710301	Ceramic Cap.,	0.01μF	±10%
R223	1	RT0510214	Resistor,	1kΩ	±5% 1/4W	C209	1	DK1710301	Ceramic Cap.,	0.01μF	±10%
R224	1	RT0515114	Resistor,	150Ω	±5% 1/4W	C210	1	DK1840301	Ceramic Cap.,	0.04μF	±10% 0%
R226	1	RT0515114	Resistor,	150Ω	±5% 1/4W	C211	1	DD1610101	Ceramic Cap.,	100pF	±10%
R227	1	RT0539214	Resistor,	3.9kΩ	±5% 1/4W	C212	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R228	1	RT0515314	Resistor,	15kΩ	±5% 1/4W	C213	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R229	1	RT0510214	Resistor,	1kΩ	±5% 1/4W	C214	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R230	1	RT0522114	Resistor,	220Ω	±5% 1/4W	C215	1	DK1840301	Ceramic Cap.,	0.04μF	±10% 0%
R231	1	RT0582114	Resistor,	820Ω	±5% 1/4W	C216	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
R232	1	RT0512214	Resistor,	1.2kΩ	±5% 1/4W	C217	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
						C218	1	EA1060169	Electrolytic Cap.,	10μF	16V
						C219	1	DK1710301	Ceramic Cap.,	0.01μF	±20%
						C220	1	DK1840301	Ceramic Cap.,	0.04μF	±10% 0%
						C221	1	DD1620101	Ceramic Cap.,	200pF	±10%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION			REF DESIG.	Q'TY	PART NO.	DESCRIPTION			
C222	1	DD1620101	Ceramic Cap.,	200pF	$\pm 10\%$	R315	1	RT0530314	Resistor,	30k Ω	$\pm 5\%$	
C223	1	EA1060169	Electrolytic Cap.,	10 μ F	16V	R316	1	RT0515514	Resistor,	1.5M Ω	$\pm 5\%$	
C224	1	EA1060169	Electrolytic Cap.,	10 μ F	16V	R317	1	RT0515514	Resistor,	1.5M Ω	$\pm 5\%$	
C225	1	DD1620101	Ceramic Cap.,	200pF	$\pm 10\%$	R318	1	RT0510414	Resistor,	100k Ω	$\pm 5\%$	
C226	1	EA1070109	Electrolytic Cap.,	100 μ F	10V	R319	1	RT0510414	Resistor,	100k Ω	$\pm 5\%$	
C227	1	DK1710301	Ceramic Cap.,	0.01 μ F	$\pm 20\%$	R320	1	RT0522314	Resistor,	22k Ω	$\pm 5\%$	
C228	1	DK1710301	Ceramic Cap.,	0.01 μ F	$\pm 20\%$	R321	1	RT0522314	Resistor,	22k Ω	$\pm 5\%$	
C229	1	DD1620101	Ceramic Cap.,	200pF	$\pm 10\%$	R322	1	RT0568114	Resistor,	680 Ω	$\pm 5\%$	
C230	1	DK1710301	Ceramic Cap.,	0.01 μ F	$\pm 20\%$	R323	1	RT0568114	Resistor,	680 Ω	$\pm 5\%$	
C231	1	EA1050509	Electrolytic Cap.,	1 μ F	50V	R324	1	RT0510114	Resistor,	100 Ω	$\pm 5\%$	
C232	1	EA3360259	Electrolytic Cap.,	33 μ F	25V	R325	1	RT0510114	Resistor,	100 Ω	$\pm 5\%$	
C233	1	EA1060169	Electrolytic Cap.,	10 μ F	16V	R326	1	RT0582214	Resistor,	8.2k Ω	$\pm 5\%$	
C234	1	DK1840301	Ceramic Cap.,	0.04 μ F	$\pm 10\%$	R327	1	RT0582214	Resistor,	8.2k Ω	$\pm 5\%$	
C235	1	EA4760109	Electrolytic Cap.,	47 μ F	10V	R328	1	RT0556114	Resistor,	560 Ω	$\pm 5\%$	
H201	1	HT308291C	Transistor,		2SC829C	R329	1	RT0556114	Resistor,	560 Ω	$\pm 5\%$	
H202	1	HT308291C	Transistor,		2SC829C	R330	1	RT0522414	Resistor,	220k Ω	$\pm 5\%$	
H203	1	HT308291C	Transistor,		2SC829C	R331	1	RT0522414	Resistor,	220k Ω	$\pm 5\%$	
H204	1	HT308291C	Transistor,		2SC829C	R332	1	RT0515214	Resistor,	1.5k Ω	$\pm 5\%$	
H205	1	HT310471C	Transistor,		2SC1047C	R333	1	RT0522414	Resistor,	220k Ω	$\pm 5\%$	
H206	1	HT308291C	Transistor,		2SC829C	R334	1	RT0522414	Resistor,	220k Ω	$\pm 5\%$	
H207	1	HT3037210	Transistor,		2SC372	R335	1	RT0527214	Resistor,	2.7k Ω	$\pm 5\%$	
H208	1	HT3037210	Transistor,		2SC372	R336	1	RC0000012	Resistor,	0 Ω	$\pm 5\%$	
H209	1	HT3037310	Transistor,		2SC373	C301	1	EA1060169	Electrolytic Cap.,	10 μ F	16V	
H211	1	HD1000105	Diode,		1N60	C302	1	DF1747301	Film Cap.,	0.047 μ F	$\pm 20\%$	
H212	1	HD1000105	Diode,		1N60	C303	1	DF5547101	Film Cap.,	470pF	$\pm 5\%$	
H213	1	HD2001105	Diode,		1S1555	C304	1	DF1622205	Film Cap.,	2200pF	$\pm 10\%$	
H214	1	HD2001105	Diode,		1S1555	C305	1	EO4740501	Electrolytic Cap.,	0.47 μ F	$\pm 20\%$	
H215	1	HD1000302	Diode,		20A90M	C306	1	EO2240501	Electrolytic Cap.,	0.22 μ F	$\pm 20\%$	
H216	1	HD1000302	Diode,		20A90M	C307	1	EQ2240501	Electrolytic Cap.,	0.22 μ F	$\pm 20\%$	
H217	1	HD1000105	Diode,		1N60	C308	1	EA2270169	Electrolytic Cap.,	220 μ F	16V	
H218	1	HD1000105	Diode,		1N60	C309	1	DF1615205	Film Cap.,	1500pF	$\pm 10\%$	
F201	1	FF1107005	Ceramic Cap.,		SFE 10.7MHz	C310	1	DF1615205	Film Cap.,	1500pF	$\pm 10\%$	
F202	1	FF1107005	Ceramic Cap.,		SFE 10.7MHz	C311	1	DD1536101	Ceramic Cap.,	360pF	$\pm 5\%$	
L201	1	LI1018802	IFT,		FM DET	C312	1	DD1536101	Ceramic Cap.,	360pF	$\pm 5\%$	
L202	1	LI1015602	IFT,		FM	C313	1	DF1633205	Film Cap.,	3300pF	$\pm 10\%$	
J201	14	YP1000113	Plug	P300 MPX. BOARD			C314	1	DF1633205	Film Cap.,	3300pF	$\pm 10\%$
J214				P300 MPX. BOARD			C315	1	DF1515205	Film Cap.,	1500pF	$\pm 5\%$
P300				P.W. Board		C316	1	DF1515205	Film Cap.,	1500pF	$\pm 5\%$	
				ZZ2974103	P.W. Board Assembly	C317	1	DF1622205	Film Cap.,	2200pF	$\pm 10\%$	
						C318	1	DF1622205	Film Cap.,	2200pF	$\pm 10\%$	
P308	4	293311802	Spacer			C319	1	DF1522205	Film Cap.,	2200pF	$\pm 5\%$	
R301	1	RT0522114	Resistor,	220 Ω	$\pm 5\%$	C320	1	DF1522205	Film Cap.,	2200pF	$\pm 5\%$	
R302	1	RT0556314	Resistor,	56k Ω	$\pm 5\%$	C321	1	EV2240351	Electrolytic Cap.,	0.22 μ F	$\pm 20\%$	
R303	1	RA0103025	Trimming Resistor,	10k Ω		C322	1	EV2240351	Electrolytic Cap.,	0.22 μ F	$\pm 20\%$	
R304	1	RA0472005	Trimming Resistor,	4.7k Ω	B	C323	1	EV1050352	Electrolytic Cap.,	1 μ F	$\pm 20\%$	
R305	1	RT0516314	Resistor,	16k Ω	$\pm 5\%$	C324	1	EV1050352	Electrolytic Cap.,	1 μ F	$\pm 20\%$	
R306	1	RT0510214	Resistor,	1k Ω	$\pm 5\%$	C325	1	EA2270359	Electrolytic Cap.,	220 μ F	35V	
R307	1	RT0522414	Resistor,	220k Ω	$\pm 5\%$	H301	1	HC1000401	IC ,	HA115		
R308	1	RT0510214	Resistor,	1k Ω	$\pm 5\%$	H302	1	HT3037210	Transistor,	2SC37?		
R309	1	RT0539214	Resistor,	3.9k Ω	$\pm 5\%$	H303	1	HT3037210	Transistor,	2SC37?		
R310	1	RT0539214	Resistor,	3.9k Ω	$\pm 5\%$	H304	1	HT313272A	Transistor,	2SC13? S or T		
R311	1	RT0510014	Resistor,	10 Ω	$\pm 5\%$	H305	1	HT313272A	Transistor,	2SC13? S or T		
R312	1	RT0510214	Resistor,	1k Ω	$\pm 5\%$	L301	1	LS1001304	MPX Coil,	56mH		
R313	1	RT0522414	Resistor,	220k Ω	$\pm 5\%$	L302	1	LS1001304	MPX Coil,	56mH		
R314	1	RT0530314	Resistor,	30k Ω	$\pm 5\%$	L303	1	LS1001305	MPX Coil,	43mH		

REF DESIG.	Q'TY	PART NO.	DESCRIPTION		
L304	1	LS1001305	MPX Coil, 43mH		
J301	1	YP1000113	Plug		
J314	14		P400 EQL. AMP. BOARD		
P400	1	YD2915104	P. W. Board		
	1	ZZ2915304	P. W. Board Assembly		
P408	2	293311802	Spacer		
R401	1	RT0582314	Resistor, 82kΩ	±5%	1/4W
R402	1	RT0582314	Resistor, 82kΩ	±5%	1/4W
R403	1	RT0547114	Resistor, 470Ω	±5%	1/4W
R404	1	RT0547114	Resistor, 470Ω	±5%	1/4W
R405	1	RN0539414	Resistor, 390Ω	±5%	1/4W
R406	1	RN0539414	Resistor, 390Ω	±5%	1/4W
R407	1	RT0522314	Resistor, 22kΩ	±5%	1/4W
R408	1	RT0522314	Resistor, 22kΩ	±5%	1/4W
R409	1	RT0582114	Resistor, 820Ω	±5%	1/4W
R410	1	RT0582114	Resistor, 820Ω	±5%	1/4W
R411	1	RN0510414	Resistor, 100kΩ	±5%	1/4W
R412	1	RN0510414	Resistor, 100kΩ	±5%	1/4W
R413	1	RT0533314	Resistor, 33kΩ	±5%	1/4W
R414	1	RT0533314	Resistor, 33kΩ	±5%	1/4W
R415	1	RT0556214	Resistor, 5.6kΩ	±5%	1/4W
R416	1	RT0556214	Resistor, 5.6kΩ	±5%	1/4W
R417	1	RT0518214	Resistor, 1.8kΩ	±5%	1/4W
R418	1	RT0518214	Resistor, 1.8kΩ	±5%	1/4W
R419	1	RT0547214	Resistor, 4.7kΩ	±5%	1/4W
R420	1	RT0547214	Resistor, 4.7kΩ	±5%	1/4W
R421	1	RT0522414	Resistor, 220kΩ	±5%	1/4W
R422	1	RT0522414	Resistor, 220kΩ	±5%	1/4W
R423	1	RT0556314	Resistor, 56kΩ	±5%	1/4W
R424	1	RT0556314	Resistor, 56kΩ	±5%	1/4W
R425	1	RT0533214	Resistor, 3.3kΩ	±5%	1/4W
R426	1	RT0533214	Resistor, 3.3kΩ	±5%	1/4W
R427	1	RN0582414	Resistor, 820kΩ	±5%	1/4W
R428	1	RN0582414	Resistor, 820kΩ	±5%	1/4W
R429	1	RT0510114	Resistor, 100Ω	±5%	1/4W
C401	1	EV2250256	Electrolytic Cap., 22μF	25V	±20%
C402	1	EV2250256	Electrolytic Cap., 22μF	25V	±20%
C403	1	DD1520101	Ceramic Cap., 200pF	50V	±10%
C404	1	DD1520101	Ceramic Cap., 200pF	50V	±10%
C405	1	DD1610101	Ceramic Cap., 100pF	50V	±10%
C406	1	DD1610101	Ceramic Cap., 100pF	50V	±10%
C407	1	EE2260251	Electrolytic Cap., 22μF	25V	±20%
C408	1	EE2260251	Electrolytic Cap., 22μF	25V	±20%
C409	1	DD1630001	Ceramic Cap., 30pF	50V	±10%
C410	1	DD1630001	Ceramic Cap., 30pF	50V	±10%
C411	1	EA4760169	Electrolytic Cap., 47μF	16V	±10%
C412	1	EA4760169	Electrolytic Cap., 47μF	16V	±10%
C413	1	DD1610101	Ceramic Cap., 100pF	50V	±10%
C414	1	DD1610101	Ceramic Cap., 100pF	50V	±10%
C415	1	DF1747401	Film Cap., 0.47μF	50V	±20%
C416	1	DF1747401	Film Cap., 0.47μF	50V	±20%
C417	1	DF5412201	Film Cap., 1200pF	50V	±2%
C418	1	DF5412201	Film Cap., 1200pF	50V	±2%
C419	1	DF5547201	Film Cap., 4700pF	50V	±5%
C420	1	DF5547201	Film Cap., 4700pF	50V	±5%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION		
C421	1	EA1070509	Electrolytic Cap., 100μF	50V	±10%
C423	1	DD1650001	Ceramic Cap., 50pF	50V	±10%
C424	1	DD1650001	Ceramic Cap., 50pF	50V	±10%
H401	1	HT313281T	Transistor, 2SC1328 T		
H402	1	HT313281T	Transistor, 2SC1328 T		
H403	1	HT313282A	Transistor, 2SC1328 S or T		
H404	1	HT313282A	Transistor, 2SC1328 S or T		
H405	1	HT313281T	Transistor, 2SC1328 T		
H406	1	HT313281T	Transistor, 2SC1328 T		
J401	1	YP1000113	Plug		
J407	7				
H005	1	HV0000508	Diode, STU-3H (CY)		
H006	1	HV0000508	Diode, STU-3H (CY)		
P700	1	YD2958101	P700 MAIN AMP. BOARD		
	1	ZZ2958301	P. W. Board		
	1		P. W. Board Assembly		
P708	40	293311802	Spacer		
R701	1	RT0520214	Resistor, 2.0kΩ	±5%	1/4W
R702	1	RT0520214	Resistor, 2.0kΩ	±5%	1/4W
R703	1	RT0533314	Resistor, 33kΩ	±5%	1/4W
R704	1	RT0533314	Resistor, 33kΩ	±5%	1/4W
R705	1	RT0568214	Resistor, 6.8kΩ	±5%	1/4W
R706	1	RT0568214	Resistor, 6.8kΩ	±5%	1/4W
R707	1	RT0510214	Resistor, 1kΩ	±5%	1/4W
R708	1	RT0510214	Resistor, 1kΩ	±5%	1/4W
R709	1	RT0510314	Resistor, 10kΩ	±5%	1/4W
R710	1	RT0510314	Resistor, 10kΩ	±5%	1/4W
R711	1	RA0502017	Trimming Resistor, 5kΩ (B)		
R712	1	RA0502017	Trimming Resistor, 5kΩ (B)		
R713	1	RT0547214	Resistor, 4.7kΩ	±5%	1/4W
R714	1	RT0547214	Resistor, 4.7kΩ	±5%	1/4W
R715	1	RT0518414	Resistor, 180kΩ	±5%	1/4W
R716	1	RT0518414	Resistor, 180kΩ	±5%	1/4W
R717	1	RT0536214	Resistor, 3.6kΩ	±5%	1/4W
R718	1	RT0536214	Resistor, 3.6kΩ	±5%	1/4W
R719	1	RT0533314	Resistor, 33kΩ	±5%	1/4W
R720	1	RT0533314	Resistor, 33kΩ	±5%	1/4W
R721	1	GF0533014	Resistor, 33Ω	±5%	1/4W
R722	1	GF0533014	Resistor, 33Ω	±5%	1/4W
R723	1	GF0522114	Resistor, 220Ω	±5%	1/4W
R724	1	GF0522114	Resistor, 220Ω	±5%	1/4W
R725	1	RT0524214	Resistor, 2.4kΩ	±5%	1/4W
R726	1	RT0524214	Resistor, 2.4kΩ	±5%	1/4W
R727	1	RT0547214	Resistor, 4.7kΩ	±5%	1/4W
R728	1	RT0547214	Resistor, 4.7kΩ	±5%	1/4W
R729	1	RT0582014	Resistor, 82Ω	±5%	1/4W
R730	1	RT0582014	Resistor, 82Ω	±5%	1/4W
R731	1	HH0000303	Thermister, SDT-04		
R732	1	HH0000303	Thermister, SDT-04		
R733	1	RA0301002	Trimming Resistor, 300Ω (B)		
R734	1	RA0301002	Trimming Resistor, 300Ω (B)		
R735	1	RT0568114	Resistor, 680Ω	±5%	1/4W
R736	1	RT0568114	Resistor, 680Ω	±5%	1/4W
R737	1	GF0591014	Resistor, 91Ω	±5%	1/4W
R738	1	GF0591014	Resistor, 91Ω	±5%	1/4W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION			REF DESIG.	Q'TY	PART NO.	DESCRIPTION				
R739	1	GF0510114	Resistor,	100Ω	±5%	1/4W	C721	1	EA4760169	Electrolytic Cap.,	47μF	16V ^{+10%} _{-10%}	
R740	1	GF0510114	Resistor,	100Ω	±5%	1/4W	C722	1	EA3370109	Electrolytic Cap.,	330μF	10V ^{+10%} _{-10%}	
R741	1	GF0518214	Resistor,	1.8kΩ	±5%	1/4W	J701	27	YP1000113	Plug			
R742	1	GF0518214	Resistor,	1.8kΩ	±5%	1/4W	J727	1	HT107221T	Transistor,	2SA722 (T, U)		
R743	1	GF0591114	Resistor,	910Ω	±5%	1/4W	H701	1	HT107221T	Transistor,	2SA722 (T, U)		
R744	1	GF0591114	Resistor,	910Ω	±5%	1/4W	H702	1	HT107221T	Transistor,	2SA722 (T, U)		
R745	1	GF0518214	Resistor,	1.8kΩ	±5%	1/4W	H703	1	HT107221T	Transistor,	2SA722 (T, U)		
R746	1	GF0518214	Resistor,	1.8kΩ	±5%	1/4W	H704	1	HT107221T	Transistor,	2SA722 (T, U)		
R747	1	GF0510114	Resistor,	100Ω	±5%	1/4W	H705	1	HV0000312	Diode,	MV-13		
R748	1	GF0510114	Resistor,	100Ω	±5%	1/4W	H706	1	HV0000312	Diode,	MV-13		
R749	1	GF0510114	Resistor,	100Ω	±5%	1/4W	H707	1	HT315092B	Transistor,	2SC1509 (Q, R)		
R750	1	GF0510114	Resistor,	100Ω	±5%	1/4W	H708	1	HT315092B	Transistor,	2SC1509 (Q, R)		
R751	1	GF0510014	Resistor,	10Ω	±5%	1/4W	H709	1	HT309451Q	Transistor,	2SC945 Q		
R752	1	GF0510014	Resistor,	10Ω	±5%	1/4W	H710	1	HT309451Q	Transistor,	2SC945 Q		
R753	1	GF0522112	Resistor,	220Ω	±5%	1/4W	H711	1	HT107331Q	Transistor,	2SA733 Q		
R754	1	GF0522112	Resistor,	220Ω	±5%	1/4W	H712	1	HT107331Q	Transistor,	2SA733 Q		
R755	1	GF0522112	Resistor,	220Ω	±5%	1/4W	H713	1	HD2000221	Diode,	1S2472 (G, R)		
R756	1	GF0522112	Resistor,	220Ω	±5%	1/4W	H714	1	HD2000221	Diode,	1S2472 (G, R)		
R757	1	GF0510014	Resistor,	10Ω	±5%	1/4W	H715	1	HD2000221	Diode,	1S2472 (G, R)		
R758	1	GF0510014	Resistor,	10Ω	±5%	1/4W	H716	1	HD2000221	Diode,	1S2472 (G, R)		
R759	1	GW1047202	Resistor,	0.47Ω	±10%	2W	H717	1	HD2000221	Diode,	1S2472 (G, R)		
R760	1	GW1047202	Resistor,	0.47Ω	±10%	2W	H718	1	HD2000221	Diode,	1S2472 (G, R)		
R761	1	GW1047202	Resistor,	0.47Ω	±10%	2W	H719	1	HD2000221	Diode,	1S2472 (G, R)		
R762	1	GW1047202	Resistor,	0.47Ω	±10%	2W	H720	1	HD2000221	Diode,	1S2472 (G, R)		
R763	1	GJ0510002	Resistor,	10Ω	±5%	2W	H721	1	HT315671Q	Transistor,	2SC1567 (Q, R)		
R764	1	GJ0510002	Resistor,	10Ω	±5%	2W	H722	1	HT315671Q	Transistor,	2SC1567 (Q, R)		
R765	1	GF0522014	Resistor,	22Ω	±5%	1/4W	H723	1	HT107941Q	Transistor,	2SA794 (Q, R)		
R766	1	GF0510212	Resistor,	1kΩ	±5%	1/4W	H724	1	HT107941Q	Transistor,	2SA794 (Q, R)		
R767	1	RC1056212	Resistor,	5.6kΩ	±10%	1/4W	H725	1	HD3003009	Diode,	WZ-177		
R768	1	RC1056212	Resistor,	5.6kΩ	±10%	1/4W	H726	1	HT309452A	Transistor,	2SC945 (Q, R)		
R769	1	RT0518314	Resistor,	18kΩ	±5%	1/4W	H727	1	HT309452A	Transistor,	2SC945 (Q, R)		
R770	1	RT0512314	Resistor,	12kΩ	±5%	1/4W	H728	1	HT313182C	Transistor,	2SC1318 (R, S)		
R771	1	RT0568214	Resistor,	6.8kΩ	±5%	1/4W	H729	1	HD2000321	Diode,	1S2471 (B L)		
R772	1	GF0515112	Resistor,	150Ω	±5%	1/4W	H730	1	HV0000312	Diode,	MV-13		
R773	1	RT0518414	Resistor,	180kΩ	±5%	1/4W	H731	1	HV0000312	Diode,	MV-13		
R774	1	RT0539314	Resistor,	39kΩ	±5%	1/4W	H732	1	HD2000501	Diode,	W06B		
R775	1	RC1002212	Resistor,	2.2Ω	±10%	1/4W	H733	1	HD2000501	Diode,	W06B		
R776	1	RC1002212	Resistor,	2.2Ω	±10%	1/4W	H734	1	HD2000501	Diode,	W06B		
R777	1	RC0000012	Resistor,	0Ω			H735	1	HD2000501	Diode,	W06B		
R778	1	RC0000012	Resistor,	0Ω			H736	1	HD2000501	Diode,	W06B		
R779	1	RC0000012	Resistor,	0Ω			L701	1	LC2272001	Coil,	2.7μF		
C701	1	EE3350251	Electrolytic Cap.,	3.3μF	25V	±20%	L702	1	LC2272001	Coil,	2.7μF		
C702	1	EE3350251	Electrolytic Cap.,	3.3μF	25V	±20%	L703	1	LY2024009	Relay,	MY-22-02	24V	
C703	1	DD1620101	Ceramic Cap.,	200pF			P800	1	YD2915106	P800 POWER SUPPLY BOARD			
C704	1	DD1620101	Ceramic Cap.,	200pF				1	ZZ2915306	P. W. Board			
C705	1	EE4760162	Electrolytic Cap.,	47μF	16V	±20%		1		P. W. Board Assembly			
C706	1	EE4760162	Electrolytic Cap.,	47μF	16V	±20%	P808	8	293311802	Spacer			
C707	1	DD1003050	Ceramic Cap.,	3pF			R801	1	GJ0522002	Resistor,	22Ω	±5%	2W
C708	1	DD1003050	Ceramic Cap.,	3pF			R802	1	GF0510014	Resistor,	10Ω	±5%	1/4W
C709	1	EA4760509	Electrolytic Cap.,	47μF	50V	^{+10%} _{-10%}	R803	1	RT0515214	Resistor,	1.5kΩ	±5%	1/4W
C710	1	EA4760509	Electrolytic Cap.,	47μF	50V	^{+10%} _{-10%}	R804	1	RT0515214	Resistor,	1.5kΩ	±5%	1/4W
C715	1	DK1610150	Ceramic Cap.,	100pF			R805	1	GJ0533102	Resistor,	330Ω	±5%	2W
C716	1	DK1610150	Ceramic Cap.,	100pF			R806	1	RT0536314	Resistor,	36kΩ	±5%	1/4W
C717	1	DF1710452	Film Cap.,	0.1μF	200V		R807	1	RT0527314	Resistor,	27kΩ	±5%	1/4W
C718	1	DF1710452	Film Cap.,	0.1μF	200V		R808	1	RA0502013	Trimming Resistor,	5kΩ	(B)	
C719	1	EA2270509	Electrolytic Cap.,	220μF	50V	^{+10%} _{-10%}	C801	1	DK1810351	Ceramic Cap.,	0.01μF	^{+10%} _{-10%} 500V	
C720	1	EA1060359	Electrolytic Cap.,	10μF	35V	^{+10%} _{-10%}	C802	1	DK1810351	Ceramic Cap.,	0.01μF	^{+10%} _{-10%} 500V	
						C803	1	EA4770631	Electrolytic Cap.,	470μF	63V		
						C804	1	EA4770509	Electrolytic Cap.,	470μF	50V		
						C805	1	EA1070509	Electrolytic Cap.,	100μF	50V		

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
C806	1	DF1747305	Film Cap., 0.047μF ±20% 50V
C807	1	DK1840302	Ceramic Cap., 0.04μF ±10% 50V
C808	1	EA3350509	Electrolytic Cap., 3.3μF 50V
C809	1	EA4770169	Electrolytic Cap., 470μF 16V
C810	1	EA1080109	Electrolytic Cap., 1000μF 10V
H801	1	HD2001508	Diode, SS-3R
H802	1	HD2001408	Diode, SS-3
H803	1	HD2001203	Diode, DS1323
H804	1	HD2001103	Diode, DS131 B
H805	1	HT403302A	Transistor, 2SD330 D or E
H806	1	HT309452A	Transistor, 2SC945 Q or R
H807	1	HD3002109	Diode, BZ-140 14V
H808	1	HD2000413	Diode, S1B01-02
J801	19	YP1000113	Plug
J819			
H002	1	HT106271M	Transistor, 2SA627 ML
H001	1	HT401881M	Transistor, 2SD188 ML
H004	1	HT401881M	Transistor, 2SD188 ML
H003	1	HT106271M	Transistor, 2SA627 ML
J009	1	YJ0500019	Socket, Transistor
J010	1	YJ0500019	Socket, Transistor
J011	1	YJ0500019	Socket, Transistor
J012	1	YJ0500019	Socket, Transistor
J022	1	BY0311001	Terminal
J001	1	YT0304009	Terminal, Antenna
J004	1	YT0101005	Terminal, Ground
J013	1	YT0304006	Terminal, Speaker
J014	1	YT0304006	Terminal, Speaker
J016	1	YJ0800022	Socket, Fuse Holder
J017	1	YJ0400056	Jack, AC Outlet
J018	1	YJ0400056	Jack, AC Outlet
J019	1	YT0201009	Terminal, Quad. Out
L001	1	LF1140082	Antenna Coil, LW, MW
C001	1	DK1710301	Ceramic Cap., 0.01μF ±20% 50V
C006	1	DK1710301	Ceramic Cap., 0.01μF ±20% 50V
J005	1	YT0204008	Terminal, 4P Pin-Jack
C002	1	DK1710301	Ceramic Cap., 0.01μF ±20% 50V
J006	1	YT0208006	Terminal, 8P Pin-Jack
J015	1	YJ0100098	Jack, Headphone
C005	1	DF1722380	Film Cap., 0.022μF 1000V
S002	1	SP0201015	Power Switch
M001	1	IM1104203	Meter, AM/FM Strength
M005	1	IM1104202	Meter, Center
M003	1	IN1008034	Lamp, Stereo Indicator
M004	1	IN1008007	Lamp, Meter
M006	1	IN1008007	Lamp, Meter
J002	1	YJ0800019	Socket, Lamp
J008	1	YJ0800019	Socket, Lamp
PZ01 DIAL LAMP BOARD			
PZ01	1	YD2886016	P. W. Board
	1	ZZ2889116	P. W. Board Assembly
MZ01	1	IN1008007	Lamp
MZ02	1	IN1008007	Lamp
MZ03	1	IN1008007	Lamp
MZ04	1	IN1008007	Lamp

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
MZ05	1	IN1008007	Lamp
JZ01	10	YJ0800017	Socket
JZ10	4	YP1000120	Plug
JZ14			
PE01	1	YD2915108	PE01 PRE-TONE AMP. BOARD
	1	ZZ2958308	P. W. Board
			P. W. Board Assembly
PE08	2	293311802	Spacer
RE01	1	RT0547414	Resistor, 470kΩ ±5% 1/2W
RE02	1	RT0547414	Resistor, 470kΩ ±5% 1/2W
RE03	1	RT0539114	Resistor, 390Ω ±5% 1/2W
RE04	1	RT0539114	Resistor, 390Ω ±5% 1/2W
RE05	1	RN0510514	Resistor, 1MΩ ±5% 1/2W
RE06	1	RN0510514	Resistor, 1MΩ ±5% 1/2W
RE07	1	RN0510414	Resistor, 100kΩ ±5% 1/2W
RE08	1	RT0510314	Resistor, 10kΩ ±5% 1/2W
RE09	1	RT0527314	Resistor, 27kΩ ±5% 1/2W
RE10	1	RT0527314	Resistor, 27kΩ ±5% 1/2W
RE11	1	RT0510214	Resistor, 1kΩ ±5% 1/2W
RE12	1	RT0510214	Resistor, 1kΩ ±5% 1/2W
RE13	1	RT0575214	Resistor, 7.5kΩ ±5% 1/2W
RE14	1	RT0575214	Resistor, 7.5kΩ ±5% 1/2W
RE15	1	RT0510214	Resistor, 1kΩ ±5% 1/2W
RE16	1	RT0510214	Resistor, 1kΩ ±5% 1/2W
RE17	1	RT0547414	Resistor, 470kΩ ±5% 1/2W
RE18	1	RT0547414	Resistor, 470kΩ ±5% 1/2W
RE19	1	RT0556214	Resistor, 5.6kΩ ±5% 1/2W
RE20	1	RT0556214	Resistor, 5.6kΩ ±5% 1/2W
RE21	1	RT0512314	Resistor, 12kΩ ±5% 1/2W
RE22	1	RT0512314	Resistor, 12kΩ ±5% 1/2W
RE23	1	RT0515414	Resistor, 150kΩ ±5% 1/2W
RE24	1	RT0515414	Resistor, 150kΩ ±5% 1/2W
RE25	1	RT0556214	Resistor, 5.6kΩ ±5% 1/2W
RE26	1	RT0556214	Resistor, 5.6kΩ ±5% 1/2W
RE27	1	RT0556214	Resistor, 5.6kΩ ±5% 1/2W
RE28	1	RT0556214	Resistor, 5.6kΩ ±5% 1/2W
RE29	1	RT0527314	Resistor, 27kΩ ±5% 1/2W
RE30	1	RT0527314	Resistor, 27kΩ ±5% 1/2W
RE31	1	RT0512314	Resistor, 12kΩ ±5% 1/2W
RE32	1	RT0512314	Resistor, 12kΩ ±5% 1/2W
RE33	1	RT0515314	Resistor, 15kΩ ±5% 1/2W
RE34	1	RT0515314	Resistor, 15kΩ ±5% 1/2W
RE35	1	RT0547414	Resistor, 470kΩ ±5% 1/2W
RE36	1	RT0547414	Resistor, 470kΩ ±5% 1/2W
RE37	1	RT0527314	Resistor, 27kΩ ±5% 1/2W
RE38	1	RT0527314	Resistor, 27kΩ ±5% 1/2W
RE39	1	RT0522514	Resistor, 2.2MΩ ±5% 1/2W
RE40	1	RT0522514	Resistor, 2.2MΩ ±5% 1/2W
RE41	1	RT0568314	Resistor, 68kΩ ±5% 1/2W
RE42	1	RT0568314	Resistor, 68kΩ ±5% 1/2W
RE43	1	RT0547314	Resistor, 47kΩ ±5% 1/2W
RE44	1	RT0547314	Resistor, 47kΩ ±5% 1/2W
RE45	1	RT0510314	Resistor, 10kΩ ±5% 1/2W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION				REF DESIG.	Q'TY	PART NO.	DESCRIPTION			
RE46	1	RT0510314	Resistor,	10kΩ	±5%	1/4W	RH08	1	RT0522514	Resistor,	2.2MΩ	±5%	1/4W
RE47	1	RT0522114	Resistor,	220Ω	±5%	1/4W	RH09	1	RT0522514	Resistor,	2.2MΩ	±5%	1/4W
RE48	1	RT0522114	Resistor,	220Ω	±5%	1/4W	CH01	1	DF1633305	Film Cap.,	0.033μF	50V	±10%
RE49	1	RT0547414	Resistor,	470kΩ	±5%	1/4W	CH02	1	DF1633305	Film Cap.,	0.033μF	50V	±10%
RE50	1	RT0547414	Resistor,	470kΩ	±5%	1/4W	CH03	1	DF1668205	Film Cap.,	0.0068μF	50V	±10%
RE51	1	RM0104005	Variable Resistor, 100kΩ	(B) HIGH			CH04	1	DF1668205	Film Cap.,	0.0068μF	50V	±10%
RE52	1	RM0104005	Variable Resistor, 100kΩ	(B) MID			SH01	1	SP0404013	Push Switch			
RE53	1	RM0104005	Variable Resistor, 100kΩ	(B) LOW			JH01						
RE54	1	RT0582114	Resistor,	820Ω	±5%	1/4W	JH01						
RE55	1	RC0000012	Resistor,	0Ω			JH17	17	YP1000113	Plug			
RE56	1	RC0000012	Resistor,	0Ω									
CE01	1	DF1722405	Film Cap.,	0.22μF	50V	±20%							
CE02	1	DF1722405	Film Cap.,	0.22μF	50V	±20%							
CE03	1	EA1060359	Electrolytic Cap.,	10μF	35V ^{+10%} _{-10%}								
CE04	1	EA1060359	Electrolytic Cap.,	10μF	35V ^{+10%} _{-10%}								
CE05	1	EE4750251	Electrolytic Cap.,	4.7μF	25V	±20%	PT01	1	YD2915110	P. W. Board			
CE06	1	EE4750251	Electrolytic Cap.,	4.7μF	25V	±20%		1	ZZ2915310	P. W. Board Assembly			
CE07	1	DD1610101	Ceramic Cap.,	100pF	50V	±10%							
CE08	1	DD1610101	Ceramic Cap.,	100pF	50V	±10%	PT07	4	344411805	Spacer			
CE09	1	DF1622205	Film Cap.,	2200pF	50V	±10%	RT01	1	RT0568314	Resistor,	68kΩ	±5%	1/4W
CE10	1	DF1622205	Film Cap.,	2200pF	50V	±10%	RT02	1	RT0568314	Resistor,	68kΩ	±5%	1/4W
CE11	1	DF1668205	Film Cap.,	6800pF	50V	±10%	RT03	1	RT0515314	Resistor,	15kΩ	±5%	1/4W
CE12	1	DF1668205	Film Cap.,	6800pF	50V	±10%	RT04	1	RT0515314	Resistor,	15kΩ	±5%	1/4W
CE13	1	DF1622305	Film Cap.,	0.022μF	50V	±10%	RT05	1	GJ0533102	Resistor,	330Ω	±5%	2W
CE14	1	DF1622305	Film Cap.,	0.022μF	50V	±10%	RT06	1	GJ0533102	Resistor,	330Ω	±5%	2W
CE15	1	DF1622305	Film Cap.,	0.022μF	50V	±10%	RT07	1	GU0515112	Resistor,	150Ω	±5%	1/2W
CE16	1	DF1622305	Film Cap.,	0.022μF	50V	±10%	RT08	1	GU0515112	Resistor,	150Ω	±5%	1/2W
CE17	1	DF1610305	Film Cap.,	0.01μF	50V	±10%	CT01	1	DD1612101	Ceramic Cap.,	120pF	50V	±10%
CE18	1	DF1610305	Film Cap.,	0.01μF	50V	±10%	CT02	1	DD1612101	Ceramic Cap.,	120pF	50V	±10%
CE19	1	EE1050501	Electrolytic Cap.,	1μF	50V	±20%	CT03	1	DF1627305	Film Cap.,	0.027μF	50V	±10%
CE20	1	EE1050501	Electrolytic Cap.,	1μF	50V	±20%	CT04	1	DF1627305	Film Cap.,	0.027μF	50V	±10%
CE21	1	EE3350501	Electrolytic Cap.,	33μF	50V	±20%	ST01	1	SP0404011	Push Switch			
CE22	1	EE3350501	Electrolytic Cap.,	33μF	50V	±20%	JT01						
CE23	1	EQ1050501	Electrolytic Cap.,	1μF	50V	±30%	JT16	16	YP1000120	Plug			
CE24	1	EQ1050501	Electrolytic Cap.,	1μF	50V	±30%							
CE25	1	EA2270359	Electrolytic Cap.,	220μF	35V ^{+10%} _{-10%}								
HE01	1	HT313283A	Transistor,	2SC1328 S, T, U			S002	1	SR1106001	Rotary Switch,			
HE02	1	HT313283A	Transistor,	2SC1328 S, T, U			R001	1	RS0504004	Variable Resistor,			
HE03	1	HT107222A	Transistor,	2SA722 S, T			M002	1	IN1008030	Lamp,			
HE04	1	HT107222A	Transistor,	2SA722 S, T			J003	1	YL0102003	Terminal			
HE05	1	HT313283A	Transistor,	2SC1328 S, T, U			L004	1	LB3007526	Balun Coil			
HE06	1	HT313283A	Transistor,	2SC1328 S, T, U			J007	1	YL0105002	Terminal			
HE07	1	HT107222A	Transistor,	2SA722 S, T			W001	1	YC0190003	AC Cord			
HE08	1	HT107222A	Transistor,	2SA722 S, T			C003	1	EC6880352	Electrolytic Cap., 6800μF	35V		
JE01		YP1000113	Plug				C004	1	EC6880352	Electrolytic Cap., 6800μF	35V		
JE08	8	YP1000113	Plug				L005	1	TS1960219	Power Transformer			
PH01 FILTER BOARD													
PH01	1	YD2915005	P. W. Board				F801	1	FS1010090	Fuse,			
	1	ZZ2974105	P. W. Board Assembly				F802	1	FS1020090	Fuse,			
RHO1	1	RT0510214	Resistor,	1kΩ	±5%	1/4W	F001	1	FS1015090	Fuse,			
RHO2	1	RT0510214	Resistor,	1kΩ	±5%	1/4W							
RHO4	1	RT0510514	Resistor,	1MΩ	±5%	1/4W							
RHO5	1	RT0510514	Resistor,	1MΩ	±5%	1/4W							
RHO6	1	RT0547214	Resistor,	4.7kΩ	±5%	1/4W							
RHO7	1	RT0547214	Resistor,	4.7kΩ	±5%	1/4W							

TECHNICAL SPECIFICATIONS

AUDIO CIRCUITS:

Rated Power Output (Continuous Average per Channel, All Channels Driven)

Power Output	.....	25 Watts 4 Ohms
		25 Watts 8 Ohms
		12.5 Watts 16 Ohms
Power Band	.....	20 Hz to 20 kHz
THD	.....	0.5%
High-level hum and noise (ref. 20 Watts at 8 ohms)	.....	-77 dB
Phono hum and noise	.....	1.5 μ V equivalent input
Dynamic range (phono input to tape recording output)	.....	96 dB
I.M. Distortion (SMPTE), at rated power	.....	0.9%
Distortion decreases as output is lowered		
Total Harmonic Distortion, at rated power	.....	0.5% Maximum
Distortion decreases as output is lowered		
Power Bandwidth (IHF) for 0.5% THD	.....	10 Hz to 50,000 Hz
Damping Factor (ref. 8 ohms)	.....	Greater than 45
Frequency Response		
Through phono	.....	2.0 dB
Input Sensitivity (for 15 Watts at 8 ohms)		
High-level	.....	180 mV
Phono (1,000 Hz)	.....	1.8 mV
Input Impedance		
High-level	.....	80,000 Ohms
Phono	.....	47,000 Ohms
Channel Separation 20 Hz to 10,000 Hz	.....	30 dB Minimum

FM SECTIONS:

IHF Usable Sensitivity	.....	2.5 μ V
(DIN) Sensitivity	.....	2.2 μ V
Selectivity	.....	50 dB
Noise Quieting	.....	-70 dB at 1,000 μ V
Total Harmonic Distortion, 400 Hz, 100% Mod	.....	0.3% Maximum
Frequency Response (ref. 75 μ sec. de-emphasis)	± 1 dB 50 Hz to 15 kHz
Stereo Separation	.....	1,000 Hz 40 dB
Sub Carrier (38 kHz) Suppression	.....	60 dB

AM (LW, MW) SECTION:

LW Sensitivity	.....	100 μ V
MW Sensitivity	.....	20 μ V
LW Image Rejection	.....	Greater than 50 dB
MW Image Rejection	.....	Greater than 60 dB

GENERAL:

Power Requirements	.....	220V ~ 50 Hz
At rated output, both channels operating	.....	130 Watts
Idling Power (Volume Control at zero)	.....	30 Watts
Dimensions		
Panel Width	.....	43.4 cm (17-3/8 Inches)
Panel Height	.....	13.4 cm (5-3/8 Inches)
Depth	.....	35 cm (14 Inches)
Weight		
Unit alone	.....	26.5 lbs
Packed for shipment	.....	34.2 lbs

* These specifications and exterior designs may be changed for improvement without advance notice.

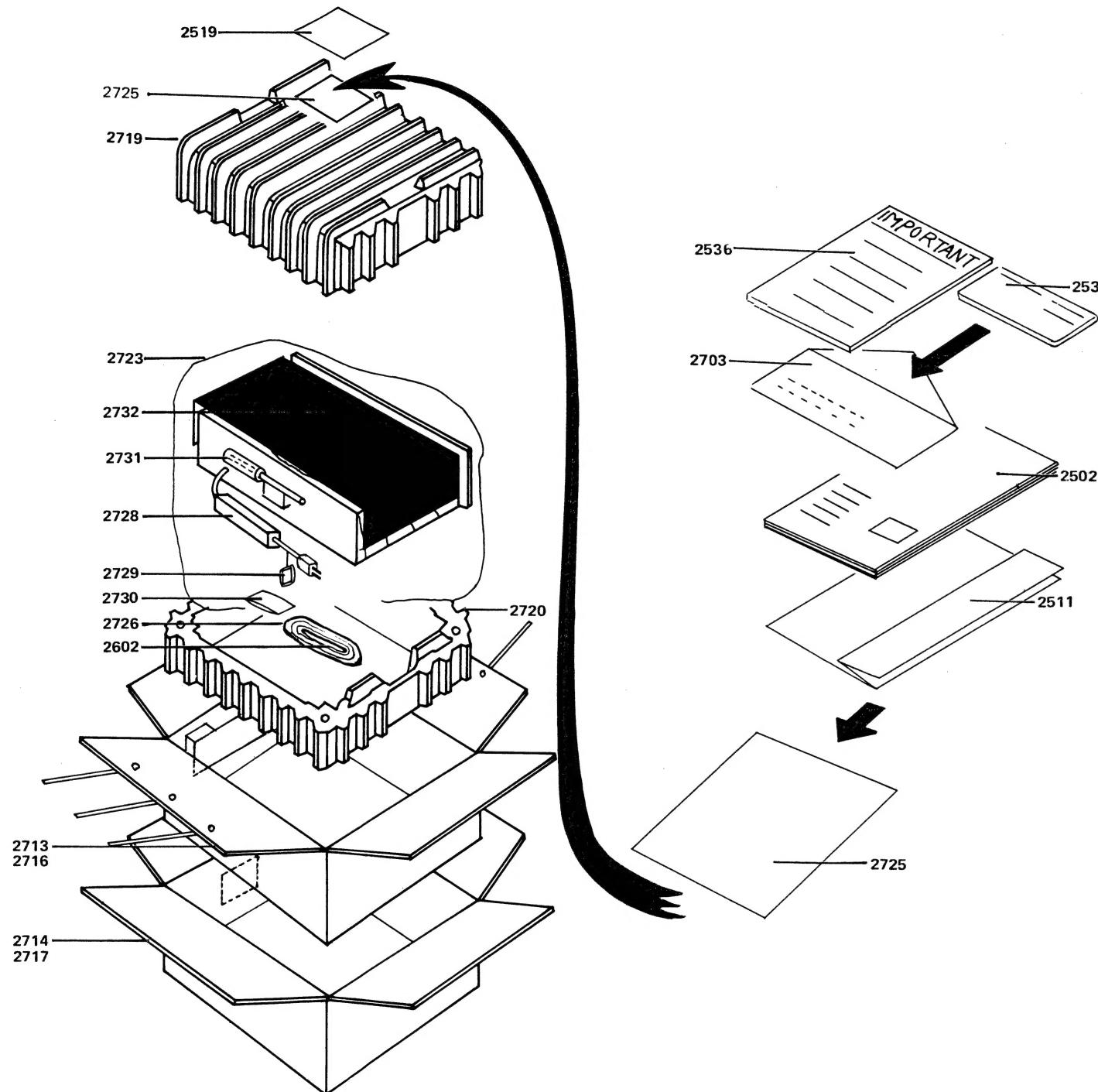


Figure 29. Packing

VOLTAGE CONVERSION

This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.

To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

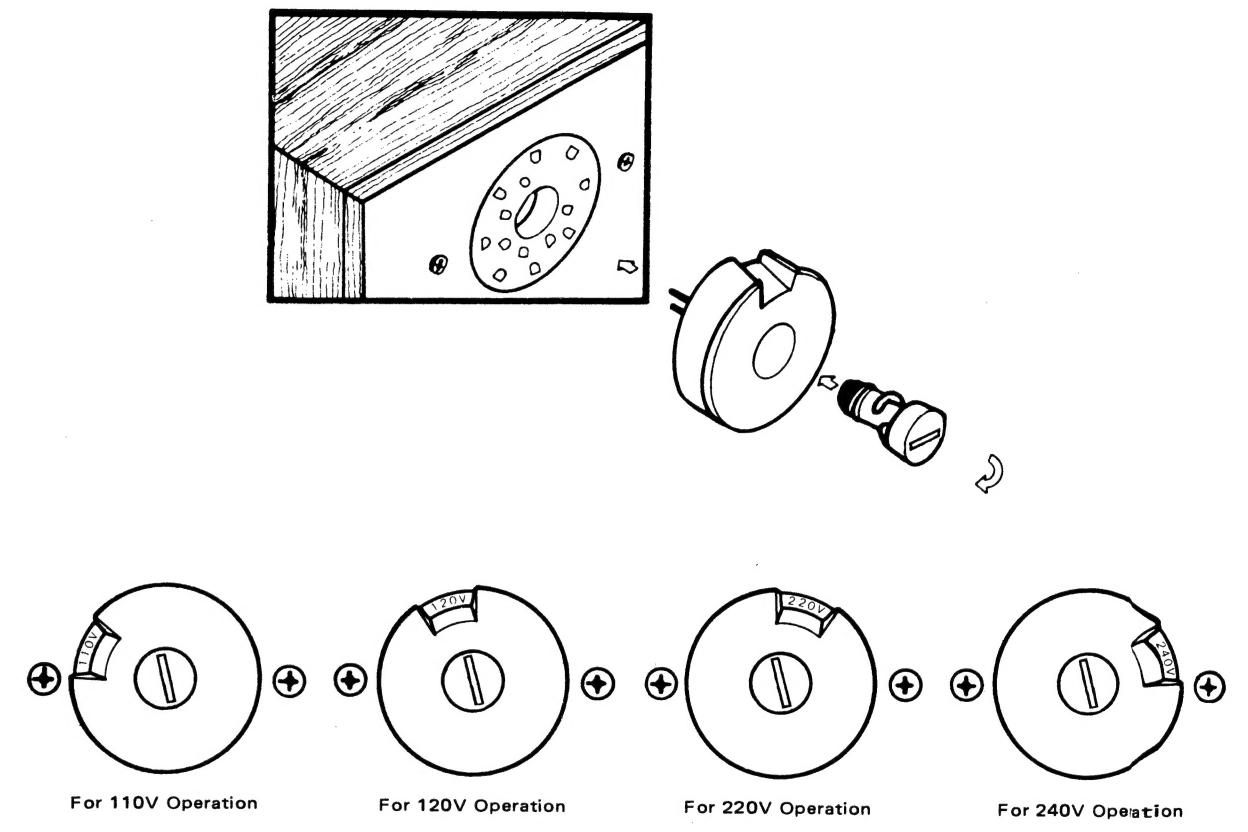


Figure 30. Voltage Conversion Chart

Instruction for the use in the range other than specified in FTZ codes

Achtung für die Leute, die in dem Gebiet wohnen,
wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen ausserhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatospule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.



marantz

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